

RCRA INSPECTION REPORT
ENVIRONMENTAL PROTECTION AGENCY, REGION 9
TOXICS AND WASTE MANAGEMENT DIVISION
FIELD OPERATIONS BRANCH

Purpose: RCRA State Overview Investigation

Facility: Intel Corporation
5000 West Williams Field
Chandler, AZ 85224

Facility I.D. Number: AZD091235453

Report Number: R(86)S066

Date of Investigation: February 7, 1986

State Inspector: John Bateman
Environmental Engineering Health Specialist

EPA Representatives: Tamara Jo Brode
Environmental Engineer

Daniel A. Horgan
Environmental Protection Specialist

Kathleen Shimmin
Chief, Field Operations Branch

Facility Representative: Debra Moore
Environmental Engineer

Report Prepared By: Tamara Brode

Report Date: June 9, 1986

POTENTIAL VIOLATIONS

40 CFR 265.16 (d) Facility does not maintain the documents and records required by paragraph (d) of this Section.

40 CFR 265.35 Aisle space allowing the unobstructed movement of spill control and decontamination equipment in the containerized storage area in an emergency was not maintained.

40 CFR 265.52 (d) Contingency Plan does not include home addresses of all persons qualified to act as emergency coordinator.

40 CFR 265.173 (a) Containers holding hazardous waste were not stored closed at the time of the inspection.

40 CFR 265.173 (d) Containers holding hazardous waste were stored in a manner which caused them to leak.

ATTACHMENTS

- A) Photographs
- B) RCRA Generator Checklist
- C) Arizona DHS Inspection Report
- D) Review of State's Report
- E) Contingency Plan

ATTACHMENT D -- REVIEW OF STATE'S REPORT

Inspector's narrative described Intel's waste storage practices in tanks adequately. However, the inspector failed to mention the containerized storage area and the types of waste Intel stores in drums. This is especially important at Intel since they had violations associated with their containerized storage area.

Inspector noted that the containerized storage area was not being properly managed. The waste was being spilled on the drums and floor. But the inspector did not site a violation for this.

Inspector failed to site violation of 40 CFR 265.52(d). The copy of the contingency plan included as Attachment (E) does not contain home addresses of the emergency coordinators.

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BACKGROUND

Intel Corporation notified as a hazardous waste generator.

INVESTIGATION

Intel generates spent photoresist chemicals and associated solid waste such as gloves and rags. These wastes are containerized in 55 gallon drums. The storage area contained leaking drums and waste was present on the floor. The drums were properly marked and dated. No drums exceeded the 90-day storage requirement.

Larger quantities of spent hydrofluoric acid and solvents are generated. These wastes are accumulated in tanks. The solvent tank has automatic level control valves, indicators and alarms. The solvent tank also has an overflow tank. The three acid tanks have visible level indicators that are inspected daily. Both the solvent and acid wastes are disposed of in bulk using registered transporters and TSD facilities.

POTENTIAL VIOLATIONS

40 CFR 265.16 (d) Facility does not maintain the documents and records required by paragraph (d) of this Section.

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ATTACHMENTS

- A) Photographs
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- D) Review of State's Report
- E) Contingency Plan



DATE: 2/7/86 NAME: HORGAN (1)
 DESCRIPTION: POSITIVE RESIST WASTE
 DRUMMED FOR RECYCLING - MADE OF
 ETHYLENE GLYCOL + MONOETHER ACETATE



DATE: 2/7/86 NAME: HORGAN (2)
 DESCRIPTION: WASTE PHOTO RESIST DRUMS
 BEING FILLED



DATE: 2/7/86 NAME: MORGAN (3)(4)
DESCRIPTION: SPILLED WASTE PHOTORESIST
IS PRESENT AROUND THE FILL AREA





DATE: 2/7/86 NAME: HORGAN (5)
 DESCRIPTION: ANOTHER VIEW OF
 THE WASTE PHOTORESIST AREA



DATE: 2/7/86 NAME: HORGAN (6)
 DESCRIPTION: SOLID WASTE DRUM IS
 NOT CLOSED



DATE: 2/7/86 NAME: HORGAN (7) + (8)
 DESCRIPTION: TWO WASTE SOLVENT ACCUMULA-
 TION TANKS WITH EMERGENCY VAPOR
 DETECTION VENTS. THE 1200 gal tank
 SHOWN ABOVE IS AN OVERFLOW FOR THE 5000
 GALLON TANK SHOWN ABOVE + BELOW.





DATE: 2/7/86 NAME: HORGAN (9)
 DESCRIPTION: TRUCK LOADING AREA FOR
 THE WASTE SOLVENT AREA DESIGNED
 TO CONTAIN 6500 GALLONS IN CASE OF
 A SPILL DURING LOADING.



DATE: 2/7/86 NAME: HORGAN (10)
 DESCRIPTION: THREE 2000-GALLON WASTE
 HYDROFLUORIC ACID ACCUMULATION TANKS
 THE LARGE TANK BEHIND THE ACID TANKS CONTAINS
 NITROGEN USED TO BLANKET THE SOLVENT TANKS

II. General:
(Part 262 Subpart A)

Yes No Comments

(A) Hazardous Waste Determination:

1. Does the generator use the following methods to determine if their wastes are hazardous wastes (H.W.):

a. Determine if waste is excluded from regulation under 40 CFR 261.4 (262.11a)?

— — N/A

b. Determine if waste is listed as a H.W. in Subpart D (262.11b)?

X — _____

c. Determine if waste is identified in Subpart C by either:

i. Testing the waste (262.11c.1)?

X — in some cases

ii. Applying knowledge of the hazard characteristic of the waste in light of the materials or the processes used (262.11c.2)?

X — mostly used

(B) EPA Identification Numbers:

1. Has the generator received an EPA ID No. before treating, storing, disposing or transporting H.W. (262.12a)?

X — _____

2. Has the generator obtained an EPA ID No. by applying to the RA using EPA form 8700-12 - Notification of Hazardous Waste Activity (262.12b)?

X — _____

3. Does the generator ensure that no H.W. is offered to transporters or TSD facilities that have not received an EPA ID No. (262.12c)?

X — _____

III. The Manifest:
(Part 262 Subpart B)

	Yes	No	Comments
1. Does the generator prepare a manifest before transporting H.W. off-site (262.20a)?	X		
2. Does the generator designate on the manifest one facility which is permitted to handle H.W. (262.20b)?	X		
3. Does the manifest contain the following information:			
a. A manifest document number (262.21a.1)?	X		
b. Generator's name, mailing address, telephone number and EPA ID No. (262.21a.2)?	X		
c. Name and EPA ID No. of each transporter (262.21a.3)?	X		
d. Name, address and EPA ID No. of the designated facility and alternate facility (262.21a.4)?	X		no alternates
e. Description of the wastes (e.g., proper DOT shipping name, hazard class and identification number (262.21a.5)?	X		
f. Total quantity of each H.W. by units of weight or volume, and the type & number of containers (262.21a.6)?	X		
g. The required certification (262.21b)?	X		
4. Does the manifest consist of a sufficient number of copies (262.22)?	X		
5. Does the generator sign the manifest certification (262.23a.1)?	X		
6. Does the generator obtain signature of initial transporter and date of acceptance on manifest (262.23a.2)?	X		
7. Does the generator retain one copy of the manifest (262.23a.3)?	X		final certified copy kept in H.Q. office in Tempe, AZ.
Does the generator give the transporter remaining copies of manifest (262.23b)?	X		

IV. Pre-Transport Requirements:
 (Part 262 Subpart C)

Yes No Comments

(A) Packaging:

1. Is waste packaged in accordance with DOT regulations [table column 5 (b)] (49 CFR 172.101) (262.30)?

— — no waste staged for shipping

(B) Labeling:

1. Are waste packages labeled in accordance with DOT regulations [table column 4] (40 CFR 172.101) (262.31)?

— — N/A

(C) Marking:

1. Are containers marked in accordance with DOT regulations (49 CFR 172.101) (262.32a)?

— — N/A

- a. Proper shipping name [table column 2]?

— — N/A

- b. Proper identification number [table column 3A]?

— — N/A

- c. Proper ORM designation for containers of ORM-A,B,C,D or E wastes?

— — N/A

2. Are containers marked with the following words (262.32b)?

X — —

" Hazardous Waste - Federal Law Prohibits Improper Disposal. If found contact the nearest police or public safety authority or the U.S. Environmental Protection Agency"
 Generators Name & Address _____
 Manifest Document Number _____

(D) Placarding:

1. Does the generator ensure that the transporter has appropriate placards (49 CFR 172 Subpart F) (262.33)?

X — —

IV. Pre-Transport Requirements:
(Part 262 Subpart C)

	<u>Yes</u>	<u>No</u>	<u>Comments</u>
(E) Accumulation Time:			
1. Does the generator comply with the requirements of Subpart I in 40 CFR Part 265 for the use and management of containers (262.34a.1)?	X	X	see page 16
2. Does the generator comply with the requirements of Subpart J in 40 CFR Part 265 for tanks, except § 265.193 (262.34a.1)?	X	—	—
3. Are containers marked with the start of accumulation date (262.34a.2)?	X	—	—
4. Is each container and tank marked with the words "Hazardous Waste" (262.34a.3)?	X	—	—
5. Does the generator comply with the requirements of Subpart C in 40 CFR Part 265 for preparedness and prevention (262.34a.4)?	X	—	—
6. Does the generator comply with the requirements of Subpart D in 40 CFR for contingency plan and emergency procedures (262.34a.4)?	X	X	see page 14
7. Does the generator comply with the requirements of § 265.16 for personnel training (262.34a.4)?	X	X	see page 11
8. Does the generator accumulate H.W. for no longer than 90 days (262.34b)?	X	—	—

note: A generator who accumulates H.W. for more than 90 days is an operator of a storage facility and is subject to the requirements of 40 CFR Parts 264 and 265 and the permitting requirements in Part 270 of RCRA.

V. Recordkeeping and Reporting:
(Part 262 Subpart D)

Yes	No	Comments
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(A) Recordkeeping:

1. Are signed manifests retained for at least 3 years (262.40a)?
2. Are Biennial Reports and Exception Reports retained for at least 3 years (262.40b)?
3. Are records kept of test results, waste analysis or other determinations made in accordance with § 262.11 (262.40c)?

(B) Biennial Report:

1. Has the facility submitted a Biennial Report to the RA by March 1 of each even numbered year (262.41a)?
2. Was the report submitted on EPA form 8700-13A and cover generator activities during the previous calendar year (262.41a)?
3. Does the report include the following information: (262.41a)
 - a. EPA ID No., name and address of the generator?
 - b. Calendar year covered by the report?
 - c. The EPA ID No., name, and address for each off-site TSD facility to which H.W. was shipped during the year?
 - d. Name and EPA ID No. of each transporter used during the year?
 - e. Description, EPA hazardous waste No., DOT hazard class and quantity of each H.W. shipped off-site? (Information must be listed by EPA ID No. of each off-site facility to which H.W. was shipped.)
 - f. Certification signed by the generator?

V. Recordkeeping and Reporting: - Continued
(Part 262 Subpart D)

<u>Yes</u>	<u>No</u>	<u>Comments</u>
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(C) Exception Reporting:

1. For a generator that has not received a signed copy of the manifest from the designated facility within 35 days, has the generator determined the status of the H.W. (262.42a)?

~~XXXX~~

2. For a generator that has not received a signed copy of the manifest within 45 days, has the generator submitted an Exception Report to the RA (262.42b)?

Abstract

N/A

(D) Special Conditions:

1. Does the generator export H.W. to countries located outside the U.S.?
2. Does the generator import H.W. into the U.S. from foreign countries?

Abstract

X

Abstract

X

If the answer to (1) or (2) is "Yes",
complete compliance checklist for
International Shipments.

III. General Facility Standards:

(Part 265 Subpart B)

Yes	No	Comments
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(E) Personnel Training:

1. Does the facility have a personnel training program (265.16a.1)?
2. Is it directed by a person trained in H.W. management procedures (265.16a.2)?
3. Does the program include training in: (265.16a.3)
 - a. Procedures for using, inspecting, repairing and replacing emergency and monitoring equipment?
 - b. Emergency procedures including contingency plan implementation?
4. Do new personnel receive required training within 6 months (265.16b)?
5. Do personnel take part in an annual review of the initial training (265.16c)?
6. Do personnel training records include: (265.16d)
 - a. Job titles?
 - b. Job descriptions?
 - c. Descriptions of training?
 - d. Records of training?

X —————

X —————

X —————

X ————— every 6 months

X —————

X ————— semi-annually

— X will amend

— X

— X

— X

IV. Preparedness and Prevention:
(Part 265 Subpart C)

	<u>Yes</u>	<u>No</u>	<u>Comments</u>
(A) Is the facility designed, constructed, maintained, and operated to minimize the possibility of fire, explosion, or releases of H.W. to the environment (265.31)?	<u>X</u>	—	_____
(B) Required Equipment:			
1. Does the facility have the following equipment where applicable:			
a. Internal communications or alarm systems (265.32a)?	<u>X</u>	—	_____
b. Telephone or 2-way radios at the scene of operation (265.32b)?	<u>X</u>	—	_____
c. Portable fire extinguishers with water, foam, inert gas, dry chemical; spill control and decontamination equipment (265.32c)?	<u>X</u>	—	_____
d. Water at adequate volume and pressure or foam producing equipment or automatic sprinklers (265.32d)?	<u>X</u>	—	_____
(C) Testing And Maintenance Of Equipment:			
1. Does the facility test and maintain emergency equipment in operable condition (265.33)?	<u>X</u>	—	_____
(D) Access To Communications Or Alarm Systems:			
1. Do personnel in areas where H.W. is being handled have immediate access to these systems (265.34)?	<u>X</u>	—	_____
(E) Required Aisle Space:			
1. Is their adequate aisle space for unobstructed movement of fire, spill control and decontamination equipment in an emergency (265.35)?	—	<u>X</u>	<u>drum storage area - see photos</u>

IV. Preparedness and Prevention: - Continued
(Part 265 Subpart C)

	<u>Yes</u>	<u>No</u>	<u>Comments</u>
(F) Arrangements With Local Authorities:			
1. Has the facility made the following arrangements:			
a. Arrangements to familiarize police, fire dept., and emergency response team with H.W. operations (265.37a.1)?	<u>X</u>	—	_____
b. Agreements designating primary emergency authority (265.37a.2)?	<u>X</u>	—	_____
c. Agreements with State emergency response teams, contractors and equipment suppliers (265.37a.3)?	<u>X</u>	—	_____
d. Arrangements to familiarize local hospitals with the properties of H.W. and the types of potential injuries and illnesses from exposure to H.W. (265.37a.4)?	<u>X</u>	—	_____
2. Did the facility document in the operating record any refusal by State or local authorities to enter into such arrangements (265.37b)?	—	—	<u>N/A</u>

V. Contingency Plan and Emergency Procedures:
(Part 265 Subpart D)

	<u>Yes</u>	<u>No</u>	<u>Comments</u>
(A) Does the facility have a contingency plan (265.51a)?	<u>X</u>	—	_____
(B) Content Of Contingency Plan:			
1. Does the plan describe actions personnel must take to comply with §§ 265.51 & 265.56 in response to fires, explosions, or unplanned releases of H.W. (265.52a)?	<u>X</u>	—	_____
2. Does the plan describe arrangements agreed by police, fire dept., hospitals, contractors, and State and local emergency response teams to coordinate emergency services pursuant to § 265.37 (265.52c)?	<u>X</u>	—	_____
3. Does the Plan list names, addresses, and phone numbers (office & home) of all persons qualified to act as emergency coordinators (265.52d)? (list in order of responsibility)	—	<u>X</u>	<u>not home address</u>
4. Does the plan list all emergency equipment including the location and physical description of each item on the list and a brief outline of its capability (265.52e)?	<u>X</u>	—	_____
5. Does the plan include an evacuation plan for personnel and a description of signals to begin evacuation, evacuation routes and alternate routes (265.52f)?	<u>X</u>	—	_____
(C) Copies of Contingency Plan:			
1. Is the plan maintained at the facility (265.53a)?	<u>X</u>	—	_____
2. Has the plan been submitted to all local emergency organizations (265.53b)?	<u>X</u>	—	_____

V. Contingency Plan and Emergency Procedures: - Con't.
(Part 265 Subpart D)

<u>Yes</u>	<u>No</u>	<u>Comments</u>
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(D) Amendment Of Contingency Plan:

1. Has the plan been reviewed and immediately amended when required (265.54)?

X

'E) Emergency Coordinator:

1. Is the coordinator familiar with all aspects of site operation and emergency procedures (265.55)?

X

2. Does the coordinator have authority to carry out the contingency plan (265.55)?

X

(F) Emergency Procedures:

1. If an emergency situation has occurred at this facility, has the emergency coordinator followed the emergency procedures listed in § 265.56 (265.56)?

— N/A

X. Use And Management Of Containers:
(Part 265 Subpart I)

	Yes	No	Comments
1. Does the facility transfer H.W. from containers not in good condition or leaking to containers in good condition (265.171)?	<u>X</u>	<u> </u>	<u> </u>
2. Are containers compatible with H.W. stored in them (265.172)?	<u>X</u>	<u> </u>	<u> </u>
3. Are containers stored closed (265.173a)?	<u> </u>	<u>X</u>	<u> </u>
4. Are containers managed to prevent rupture or leakage (265.173b)?	<u> </u>	<u>X</u>	<u>waste is not poured into drums</u> <u>carefully - waste is very viscous</u>
5. Are containers inspected weekly for leaks and deterioration (265.174)?	<u>X</u>	<u> </u>	<u>daily</u>
6. Are ignitable or reactive wastes stored at least 50 feet from the facility's property line (265.176)?	<u>X</u>	<u> </u>	<u> </u>
7. Are incompatible wastes stored in separate containers (265.177a)?	<u>X</u>	<u> </u>	<u> </u>
8. Are H.W. not placed in unwashed containers that previously held an incompatible waste or material (265.177b)?	<u>X</u>	<u> </u>	<u> </u>
9. Are containers holding a H.W. that is incompatible with any waste or materials stored nearby in other containers, piles, open tanks, or surface impoundments separated from the incompatibles by sufficient distance or protected by means of a dike, berm, wall, or other device (265.177c)?	<u>X</u>	<u> </u>	<u> </u>
10. Are containers that are not empty managed as a H.W. (261.7a.2)?	<u>X</u>	<u> </u>	<u> </u>
11. For a container to be considered empty the facility must ensure that:			
a. No more than one inch of residue remains on bottom of container or inner lining (261.7b.1)?	<u> </u>	<u> </u>	<u> </u>
b. Containers that held an acutely H.W. are tripled rinsed using a solvent capable of removing the contents (261.7b.3)?	<u> </u>	<u> </u>	<u> </u>

XI. Tanks:
(Part 265 Subpart J)

	<u>Yes</u>	<u>No</u>	<u>Comments</u>
1. Is the treatment or storage of H.W. in tanks conducted so that it does not: (265.192a)			
a. Generate extreme heat or pressure; fire or explosion; or violent reaction?	<u>X</u>	<u> </u>	<u> </u>
b. Produce uncontrolled toxic or flammable mists, fumes, dusts, or gases?	<u>X</u>	<u> </u>	<u> </u>
c. Damage the structural integrity of the tank?	<u>X</u>	<u> </u>	<u> </u>
2. Are H.W. or treatment reagents placed in a tank so that they do not cause the tank or its inner liner to rupture, leak, corrode, or otherwise fail (265.192b)?	<u>X</u>	<u> </u>	<u> </u>
3. Do uncovered tanks have at least 2 feet of freeboard, or dikes, or other containment features (265.192c)?	<u> </u>	<u> </u>	<u>N/A</u>
4. Where H.W. is continuously fed into a tank, is the tank equipped with a waste feed cutoff system or by-pass system to a stand-by tank (265.192d)?	<u>X</u>	<u> </u>	<u>low level alarm at 75% capacity</u> <u>+ high level alarm at 90% capacity</u>
5. Does the facility conduct waste analysis and trial treatment or storage tests, or have they obtained written documentation on similar storage or treatment of similar waste under similar operating conditions before the tank is used to:			
a. Chemically treat or store a H.W. which is substantially different from waste previously treated or stored in the tank (265.193a.1)?	<u> </u>	<u> </u>	<u>Not applicable to generators</u>
b. Chemically treat H.W. with a substantially different process than was previously used (265.193a.2)?	<u> </u>	<u> </u>	<u>Not applicable to generators</u>

XI. Tanks: - Continued
(Part 265 Subpart J)

	<u>Yes</u>	<u>No</u>	<u>Comments</u>
6. Are daily and weekly inspections done for the following:			
a. Discharge control equipment e.g., feed cutoff, bypass and drainage systems (Daily) (265.194a.1)?	<u>X</u>	—	—
b. Data gathered from monitoring equipment e.g., pressure and temperature gauges (Daily) (265.194a.2)?	<u>X</u>	—	—
c. Level of waste in uncovered tanks (Daily) (265.194a.3)?	—	—	<u>N/A</u>
d. Construction materials of tank e.g., corrosion, leaking fixtures or seams (Weekly) (265.194a.4)?	<u>X</u>	—	—
e. Discharge confinement structures e.g., dikes (Weekly) (265.194a.5)?	<u>X</u>	—	—
7. At closure, are all H.W. and residues removed from tanks and associated equipment and structures (265.197)?	—	—	<u>N/A</u>
8. Are ignitable or reactive waste treated, rendered, or mixed before or immediately after placement in a tank so that the resulting waste no longer meets the definition of ignitability or reactivity (265.198a.1)? or	<u>X</u>	—	<u>storage tanks have a N₂ atmosphere in them & their piping</u>
9. Are ignitable or reactive waste stored or treated in such a way that it is protected from conditions which may cause the waste to ignite or react (265.198a.2)?	<u>X</u>	—	—
10. Does the facility comply with the buffer zone requirements for covered tanks containing ignitable or reactive wastes specified in tables 2-1 through 2-6 of the National Fire Protection Association's "Flammable and Combustible Liquids Code" (1977 or 1981) (265.198b)?	<u>X</u>	—	—
11. Are incompatible wastes stored in separate tanks (265.199a)?	—	—	<u>N/A</u>
12. Are H.W. not placed in unwashed tanks that previously held an incompatible waste or material (265.199b)?	—	—	<u>N/A</u>

Gregory A. Bone
October 29, 1985
Page 2

ADHS is providing your facility with a "Groundwater Monitoring and Financial Certification Statement" (see attachment 2). Please complete the statement and forward the original signed copy to:

Michael Feeley, Chief
RCRA Programs Section (T-2-1)
Toxics and Waste Management Division
EPA Region 9
215 Fremont Street
San Francisco, California 94105

A copy of the signed statement should be sent back to ADHS so that it can be placed in your facility's files.

If you have any questions concerning this certification process, please do not hesitate to call me at (602) 257-2201.

Sincerely,

Victoria Brind'Amour
Victoria Brind'Amour, Manager
Waste Compliance Unit
Office of Waste and Water Quality
Management

VB:lp
Attachments

cc: Michael Feeley, EPA
Alan Roesler, ADHS

blind cc. Lauren
Evans
ADHS



ARIZONA DEPARTMENT OF HEALTH SERVICES

BRUCE BABBITT, Governor
LLOYD F. NOVICK, M.D., M.P.H., Director

WFS REF. NO. 8111
DATE: February 25, 1986

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Ms. Debra Moore
Intel Corp.
5000 West Williams Field Road
Chandler, AZ 85224

Dear Ms. Moore:

On February 7, 1986 a hazardous waste facility inspection was conducted at your Chandler facility (EPA ID No. AZD091235453) by a representative of the Arizona Department of Health Services, Office of Waste and Water Quality Management. The inspection was conducted in accordance with the Arizona Revised Statutes § 36-2821 et. seq.

The facility inspection, including any in-office record reviews, was done to evaluate your compliance with the Arizona Official Compilation of Administrative Rules and Regulations (ACRR) R9-8-1801 et. seq. (Article 18). A copy of the inspection report has been included with this letter to apprise you of the conditions observed during the inspection. You will be informed at a later date of any corrective actions you must take and any enforcement action the Department will initiate as a result of this inspection.

If you have any questions concerning the above information, please contact me at 257-2235.

Sincerely,

Dale A. Anderson, Manager
Hazardous Waste Inspections Program
Office of Waste & Water Quality Management

DAA:cp
Attachments
cc: EPA Region IX

The Department of Health Services is An Equal Opportunity Affirmative Action Employer.

Date: 7-2-86

ARIZONA DEPARTMENT OF HEALTH SERVICES
OFFICE OF WASTE AND WATER QUALITY MANAGEMENT

GENERATOR INSPECTION REPORT

Company Name INTEL CORP.

E.P.A. I.D. Number. AZD091235453

Street Address 5000 WEST WILLIAMS FIELD RD.

City/State/Zip CHANDLER, ARIZONA 85224

Phone Number 602-961-8051

Mailing Address ABOVE

Facility Representative(s) & Titles:

1. DEBRA MOORE, FACILITY ENVIRONMENTAL ENGINEER
2. _____
3. _____

A.D.H.S. Representatives(s):

1. JOHN BATEMAN
2. _____

Other Participants/Agencies:

1. KATHLEEN SHIMMIN, TAMARA BRODE, DANIEL HORGAN
2. EPA- FIELD OPERATIONS BRANCH

Type of Business: MANUFACTURING OF COMPUTER HARDWARE

Process Description CONSTRUCT + ASSEMBLE VARIOUS ELECTRONIC
PARTS INTO ASSORTED COMPUTER HARDWARE. CLEANING OF PARTS USING
VARIOUS SOLVENT + ETCHING OF MICRO ELECTRONIC COMPONENTS.

INSPECTION REPORT ATTACHMENT

Intel Corp. in Chandler generates large quantities of solvent and acid waste which are accumulated in above ground storage tanks. Smaller quantities of waste are contained in 55 gal drums.

Two tanks, 1- 5000 gal and another 1200 gal tank are used for solvent waste. These two tanks are housed in a newly constructed building. The tanks have a continuously monitoring system which indicates high and low levels (90% & 75%). Each tank has a flame arrester vent. If vapors are accumulated discharge a detector will set off a alarm.

The smaller tank (1200 gal) acts as a overflow tank for the 5000 gal tank.

When the tanks are full a tanker truck parks in a below ground level loading dock area which has a holding capacity of 6500 gal. in the event a accident happen while the tanks are being pumped.

Three- 2000 gal tanks are used for Waste Hydrofluoric acid. These tanks are outside surrounded by a concrete berm. Each tank has a monitoring level sight glass. Tank levels are monitored each shift. In the event there is a overflow (each tank has a overflow pipe). The overflow material is collected in a sump with a pump. The material is then

Facility Name Intel Corp.
Chandler Fac.

INSPECTION REPORT ATTACHMENT

The facility treats all its acid and basic waste in their neutralization system and is permitted by the city of Chandler to discharge their effluent to the city sewer system.

Note: Intel has removed the on ground storage tank and has removed all associated piping and etc.

HAZARDOUS WASTE DETERMINATION(R9-8-1819.A.)

		<u>Yes</u>	<u>No</u>	<u>N/A</u>
262.11	Facility has made the required hazardous waste determination for all wastes generated by the facility.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments: _____

262.40(c)	Facility has retained a copy of the waste determination documentation for at least three years from the date the waste was last sent for treatment, storage, or disposal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Comments: _____

Hazardous Wastes Generated (number items, indicating generating process and quantity)

1984 ANNUAL REPORT ATTACHED

Hazardous Waste Determination, Page 2

INDICATE WASTE(s) BY ITEM

	<u>Storage</u>	<u>Treat ment</u>	<u>Disposal</u>	<u>Number of Units</u>	<u>Does Waste leave Site Specify</u>
Container Storage Area	55 GAL. DRUMS			11	YES
Tank (above ground)	5000 GAL. } 1200 GAL. }	SOLVENTS		1	YES
Tank (below surface)	2000 GAL. -	HYDRO FLUORIC ACID		3	"
Surface Impoundment					
Other (Specify)					

CONTAINER STORAGE AREAS (R9-8-1817; R9-8-1819)

		Yes	No	N/A
265.174	Container storage areas are inspected at least weekly looking for leaks and for deterioration caused by corrosion or other factors.	✓	—	—
265.171	Containers holding hazardous waste do not leak and are in good condition. Comment: * <u>SEE BELOW</u>	✓	—	—
265.172	Containers are compatible with the wastes to be stored so that the ability of the container to contain the waste is not impaired. Comment: _____	✓	—	—
265.173(a)	Containers holding hazardous waste are closed during storage except when it is necessary to add or remove waste.	—	✓	—
(b)	Comment: <u>DUMPS HAVE A FIRE PROOF FUNNEL</u> <u>HOWEVER THE VENT PLUG WAS NOT</u> <u>* * * INSTALLED AFTER FILLING</u> Containers holding hazardous waste are managed (opened, handled, or stored) to prevent ruptures or leaks. Comment: _____	✓	—	—
265.176	Containers holding ignitable or reactive waste are located at least fifty feet from facility property line. Comment: _____	✓	—	—
265.17(a)	Containers holding ignitable or reactive waste are separated and protected from sources of ignition or reaction, and "No Smoking" signs are conspicuously placed whenever there is a hazard from ignitable or reactive waste. Comment: _____	✓	—	—

* TOP OF DRUMS WERE COVERED WITH

SPILLED ~~SO~~ WASTE MATERIAL AND SOME SPILLAGE ON THE FLOOR

* * ONE ~~DRUM~~^{DRUM} WITH PACKING MATERIAL WAS NOT CLOSED

STORAGE/TREATMENT TANKS (R9-8-1817)

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
265.194(a)(1) Discharge control equipment is inspected at least once each operating day to ensure good working order;	<u>✓</u>	<u> </u>	<u> </u>
(2) Data gathered from monitoring equipment is checked at least once each operating day to ensure that tanks are being operated in accordance with design.	<u>✓</u>	<u> </u>	<u> </u>
(3) The level of waste in uncovered tanks are inspected at least once each operating day to ensure compliance with two foot freeboard requirement.	<u> </u>	<u> </u>	<u>✓</u>
(4) The construction materials are inspected at least <u>weekly</u> to detect corrosion or leaking of fixtures or seams; <i>INSPECTED DAILY</i>	<u>✓</u>	<u> </u>	<u> </u>
(5) The construction materials of, and the area immediately surrounding discharge confinement structures are inspected at least weekly to detect erosion or obvious signs of leakage.	<u>✓</u>	<u> </u>	<u> </u>
265.192(a) Tanks holding ignitable, reactive, or 265.17(b) mixtures of incompatible wastes and materials are managed to prevent: 1. Generation of extreme heat or pressure, fire or explosion, or violent reaction;	<u>✓</u>	<u> </u>	<u> </u>
Comment: <u>SOLVENT TANKS HAVE A NITROGEN</u> <u>BLANKET AND FLAME ARRESTORS</u>			
2. Production of uncontrolled toxic mists, fumes, dusts, or gases in sufficient quantities to threaten human health;	<u>✓</u>	<u> </u>	<u> </u>
Comment: _____ _____			

Container Storage Areas, Page 2

265.177(a) and (b)

Incompatible wastes or incompatible waste and materials (see Appendix V for examples) are not placed in the same container or hazardous wastes are not placed in an unwashed container which previously held an incompatible waste or material (unless in compliance with 265.17(b)).

Comment: _____

Yes No N/A

✓ _____ _____

- (c) Containers holding a hazardous waste that is incompatible with any other waste or material stored nearby are separated from the other materials or protected from them by means of a dike, berm, wall or other device.

Comment: _____

✓ _____ _____

265.17(b)

Containers holding ignitable, reactive, or mixtures of incompatible wastes and materials are managed to prevent:

1. Generation of extreme heat or pressure, fire or explosions, or violent reaction;

Comment: _____

✓ _____ _____

2. Production of uncontrolled toxic mists, fumes, dusts or gases in sufficient quantities to threaten human health;

Comment: _____

✓ _____ _____

3. Production of uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosions;

Comment: _____

✓ _____ _____

Container Storage Areas, Page 3

		<u>Yes</u>	<u>No</u>	<u>N/A</u>
	4. Damage to the structural integrity of the device or facility;	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Comment: _____			

	5. Through other like means a threat to human health or the environment.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Comment: _____			

262.34(a)(2)	All containers holding hazardous waste are clearly marked with the beginning accumulation date and visible for inspection.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Comment: _____			

(3)	All containers holding hazardous waste are labeled or clearly marked with the with the words, "Hazardous Waste."	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Comment: _____			

(4)(b)	The facility has not stored hazardous wastes for more than ninety days from the beginning accumulation date.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Comment: _____			

Yes No N.

- (d) Where hazardous waste is continuously fed into a tank, the tank is equipped with a waste cut-off system or by-pass system to a standby tank, etc.

Comment: _____

265.193

Waste analyses and trial tests are conducted or documentation on similar waste management is obtained to assure compliance with 265.192(a) and (b) whenever a tank is used to store or chemically treat a hazardous waste substantially different from the material originally held in the tank or the chemical treatment process is substantially different from any previously used in that tank (must be recorded in operating record). (Note: This requirement does not apply to generators).

Comment:

265.198(a)
265.17(a)

Ignitable or reactive wastes are not placed in a tank unless the waste is treated or mixed before or immediately after placement in the tank so that the resulting material no longer meets the definition of an ignitable or reactive waste and that 265.17(b) is complied with or the waste is managed to protect it from any materials or conditions which may cause it to ignite (including "NO SMOKING" signs) or react or the tank is used solely for emergencies.

Comment: WASTE TANKS ARE SEGREGATED
FROM THE REST OF THE WASTE SYSTEM

265.198(b) .

Covered tanks containing ignitable or reactive waste are in compliance with the National Fire Association's buffer zone requirements for tanks (tables 2-1 through 2-6 of the Flammable and Combustible Code 1977).

Comment: NO COVERED TANKS

Storage/Treatment Tanks, Page 4

		<u>Yes</u>	<u>No</u>	<u>N/A</u>
265.199	Incompatible wastes or incompatible wastes and materials are not placed in the same tank (see Appendix V for examples) or hazardous wastes are not placed in an unwashed tank which previously held an incompatible waste or material (unless in compliance with 265.17)).	<u>✓</u>	<u>—</u>	<u>—</u>

Comment: _____

PREPAREDNESS AND PREVENTION(R9-8-1821.E)

40 CFR
265.32

Facility is equipped with the following:
(a) internal communications or alarm
system capable of providing
immediate emergency contact with
facility personnel.

Yes No N/A

✓ — —

(b) telephone or external communication
device for summoning emergency
assistance

✓ — —

(c) fire control equipment/spill control
equipment/decontamination equipment:

✓ — —

Comment: _____

(d) adequate water volume and pressure
to supply appropriate equipment.

✓ — —

Comment: _____

265.33

Required communication and emergency
equipment is tested and maintained as
necessary:

✓ — —

Comment: _____

Preparedness and Prevention, Page 2

Yes No N/A

265.34 (a) Employees handling hazardous wastes have immediate access (direct or indirect) to internal communication or alarm system.

✓ — —

Comment: _____

(b) If only one employee on the premises, the employee has immediate access to external communication.

✓ — —

Comment: _____

Precaredness and Prevention, Page 3

<u>Yes</u>	<u>No</u>	<u>N/A</u>
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265.35

Adequate aisle space is maintained to allow for movement of personnel and equipment in an emergency situation.

Comment: DRUMS ARE PLACED NEXT TO EACH OTHER, NO ISLE SPACE FOR EASY ACCESS

265.37

Arrangements have been made with the following organizations (as appropriate for the type of waste handled at the facility and the potential need for the services of the organization)

(a)(1) Police departments, fire departments, and emergency response teams (to familiarize with layout of facility, properties of wastes, evacuation routes, etc.).

Comment: CONTINGENCY PLAN SENT
TO EACH ORGANIZATION.

(a)(4) Local hospitals (to familiarize with the properties of wastes handled and types of injuries or illnesses which could result from fires, explosions, or releases).

Comment:

(b) Facility has documented local authority (s) refusal to enter into requested arrangement.

Comment: NO REFUSAL

CONTINGENCY PLAN (R9-8-1819.A)

40CFR
265.51

Contingency plan has been developed by the facility.

Yes No N/A

✓ — —

Comment: PLAN REVISED 1/2/85

COPY ATTACHED

265.52

Contintency plan includes:

(a) description of the actions facility personnel will take to respond to fires, explosions, or releases of hazardous waste (or constituents) to air, soil or surface water at facility (consult 265.56 for requirements).

✓ — —

Comment: _____

(c) description of arrangements agreed to by organizations pursuant to 265.37.

✓ — —

Comment: _____

(d) An up to date list of names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinator. Where more than one person listed, one person is named as primary emergency coordinator and the others are listed in the order in which they will assume responsibility as alternative(s).

✓ — —

Comment: _____

Contingency Plan, Page 2

(e) List of equipment specified in 265.32 including location/physical description/capabilities of each item on the list.

Yes No N/A

✓

Comment: _____

(f) Evacuation plan for facility personnel (signals and route).

✓

Comment: _____

265.53

Copy of the contingency plan:

(a) is maintained at the facility

✓

(b) was submitted to all the emergency response agencies identified in the plan.

✓

Comment: _____

Copy of contingency plan was submitted
to ADHS. (Az. requirement only: R9-8-1821.E.4)

✓

265.54

Contingency plan has been reviewed and amended as necessary (e.g. failure in emergency response of change in facility, emergency coordinators, emergency equipment).

✓

Comment: Revised 1/2/85

EMERGENCY PROCEDURES (R9-8-1821.E; R9-8-1823.A)

		<u>Yes</u>	<u>No</u>	<u>N/</u>
265.55	Emergency coordinator thoroughly familiar with and responsible for implementing the facility contingency plan is either at the facility or on immediate call at all times.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Comment: _____			
265.56 (d)(2)	Previous contingency plan incidents were immediately reported to the National Response Center (800/424-8802) and within 24 hours to ADHS (255-1160).			
	Comment: _____			
	(j) Contingency plan incident was noted in operating record and within 15 days of the incident a written report was submitted to the EPA Regional Administrator (report not applicable to interim status facilities).			<input checked="" type="checkbox"/>
	Comment: <u>NO SPILLAGE WATCH REQUIRED</u>			
	<u>CONTINGENCY PLAN</u>			

ANNUAL GENERATOR REPORT (R9-8-1819.D; R9-8-1819.E.1)

Yes No N/A

Facility has submitted an annual generator report to BWC no later than March 1, for the preceding calendar year (applies only to facilities which ship waste off-site or discharge to a sewage system).

✓

Comment: _____

Generator report specifies the chemical name or description and quantity of all hazardous wastes which were delivered to any hazardous waste facility specified in R9-8-1818 D.3, disposed of by legal discharge into a non-municipal sewage system, reused, reclaimed, treated or delivered to any hazardous waste facility located outside the State, and the names and addresses of such facilities.

✓

Comment: _____

Facility maintains a copy of each Annual Report for a period of at least three years from the due date of the report.

✓

Comment: _____

MANIFESTS Page 1

FOR GENERATORS INITIATING OFF-SITE SHIPMENTS OF HAZARDOUS WASTE)

YES NO N/A

262.20(a) Generator has prepared manifests for all hazardous wastes transported or offered for transportation to off-site treatment, storage, or disposal facilities (except for characteristic wastes shipped for reuse, recycling, or reclamation).

✓ — —

COMMENT: _____

R9-8-1818.F.1 Generator has submitted to BWC (no later than thirty days following the end of the month of shipment) one copy of each manifest returned by the designated receiving facility.

✓ — —

COMMENT: _____

262.21 Generator has included the required information on the manifest (see attached manifest deficiency list).

✓ — —

COMMENT: _____

262.42(a) and (b) Generator has contacted the initial transporter or designated facility to determine the status of the waste if a completed manifest form had not been returned within thirty-five days of the initial shipment date, and has filed an Exception Report with EPA and BWC if the completed manifest form was not received within forty-five days of the initial shipment date.

— — ✓

COMMENT: MANIFEST RECEIVED WITHIN

THE TIME LIMIT

Manifest Page 2

262.40(a)
and (b)

Generator has retained a copy of each completed manifest or Exception Report for at least three years from the date the waste was accepted by the initial transporter, or the due date of the Exception Report, respectively.

✓ — —

COMMENT: _____

EXPLANATION OF CODE NUMBERS
USED TO IDENTIFY DEFICIENCIES IN HAZARDOUS WASTE
MANIFESTS AND REGULATION REFERENCES

- ✓1. Manifest document number (R9-8-1818.B.6.)
- ✓2. Date of Shipment (R9-8-1818.B.5.)
- ✓3. Generator's identification (name, address, telephone number)(R9-8-1818.B.1.)
- ✓4. Generator's EPA identification number (R9-8-1818.B.1)
- ✓5. Generator's certification (40 CFR § 262.21(b))
- ✓6. Generator's signature (R9-8-1818.B.1.)
- ✓7. Transporter's identification (name, address, telephone number) (R9-8-1818.B.2)
- ✓8. Transporter's EPA identification number (R9-8-1818.B.2)
- ✓9. Transporter's signature (R9-8-1818.B.2)
- ✓10. Date of Acceptance by Transporter (40 CFR § 262.23(a)(2); 40 CFR § 263.20(b))
- 11. Designated TSD facility's identification (name, address) (R9-8-1818.B.3.)
- 12. Designated TSD facility's EPA identification number (R9-8-1818.B.3.)
- 13. Designated TSD facility's signature (R9-8-1818.F.1.)
- 14. Date of Acceptance by TSD (40 CFR § 263.20(d)(1))
- 15. Improper shipping name-sequence(R9-8-1818.B.4., 49 CFR § 172.101; 49 CFR § 172.202)
- 16. Improper hazard class (R9-8-1818.B.4., 49 CFR § 172.101; 49 CFR § 172.202)
- ✓17. Identification number (preceded by "UN" or "NA" as appropriate)
(R9-8-1818.B.4., 49 CFR § 172.101; 49 CFR § 172.202)
- 18. Shipping descriptions printed and legible (R9-8-1818.B; 49 CFR § 172.201(a)(2))
- 19. Late submittal (>30 days after due date)(R9-8-1818.F.1)
- ✓20. Total quantity of each waste by weight/volume (R9-8-1818 B.4.);
(40 CFR § 262.21(a)(6))
- ✓21. Type and number of containers (40 CFR § 262.21(a)(6))
- 22. HM column requirement (49 CFR § 172.201(a)(1)(iii))
- 23. R.Q. requirement (49 CFR § 172.203(a)(2))

E.P.A. IDENTIFICATION NUMBERS/PART A REQUIREMENTS

YES NO N/A

262.12(a) Generator did not treat, store, dispose of, transport, or offer for transportation, hazardous waste without having received an EPA identification number.

✓

Comment: _____

262.12(c) Generator did not offer his hazardous waste to transporters or to treatment, storage, or disposal facilities that had not received an EPA identification number (does not apply to wastes exempted under 40 CFR 261.6(a)).

✓

Comment: _____

263.11 Transporter did not transport hazardous waste without having received an EPA identification number.

✓

Comment: _____

265.11 TSD facility owner or operator has applied to EPA for an EPA identification number in accordance with the EPA notification procedures (45 FR 12746).

 ✓

Comment: _____

270.71 TSD facility did not treat, store or dispose of hazardous waste, or employ processes not specified in Part A of the permit application. In addition the facility did not exceed specified design capacities.

 ✓

Comment: _____

EPA Identification Numbers/Part A Requirements

Page 2

270.72

TSD facility has submitted a revised Part A permit application for all changes in regard to new wastes, design capacity of processes, processes and ownership prior to the change. _____

✓

Comment: _____

PERSONNEL TRAINING(R9-8-1821.A.: R9-8-1821.E.6: R9-8-1821.F.3)

Yes No N/A

- 265.16 (a) Facility personnel have successfully completed a program of classroom instruction or on-the-job training in hazardous waste management procedures (including contingency plan procedures) relevant to the positions in which they are employed (program directed by person trained in hazardous management procedures)

✓

Comment: _____

- (b) Facility personnel have completed the required training program within six months after the effective date of the regulations or within six months of assignment to the facility (new employees are not permitted to work in unsupervised positions until completion of required training.

✓

Comment: _____

- (c) Facility personnel take part in an annual review of the initial training required by 265.16(a)

✓

Comment: _____

- (d) Facility maintains the following documents and records:
(1) Job title for each position related to hazardous waste management and name of employee filling each job

 ✓

*Comment: _____

- (2) Written job description for each position which includes requisite skill, education, or other qualifications and duties assigned to each position

 ✓

*Comment: _____

** TASK FORCE HAS BEEN DEVELOPED TO ORGANIZE THE REQUIRED RCRA TRAINING*

Personnel Training, Page 2

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
(3) Written description of type and amount of introductory and continuing training that will be given to each position.	—	✓	—
Comment: _____			
(4) Records that document training or job experience have been completed by personnel.	✓	—	—
* Comment: <u>NOT IN INDIVIDUAL FILE</u>			
(e) Training records are maintained until closure for current employees and for at least three years from the date of employee termination.	✓	—	—
Comment: _____			

* NOTED ON A MASTER TRAINING LOG

HAZARDOUS WASTE GENERATOR AND TSD FACILITY REPORT

(1) FACILITY NAME: Intel Corporation						(4) EPA ID NUMBER: AZD091235457					
(2) LOCATION: 5000 W. Williams Field Rd, Chandler						(5) TYPE: Generator					
(3) COUNTY: Maricopa						(6) QUARTERLY REPORT QUARTER: YEAR:			ANNUAL REPORT YEAR: 1984		

(7) WASTE TYPE AND CONCENTRATION					(8) GENERATED ON-SITE		(9) RECEIVED FROM OFF-SITE		(10) OFF-SITE SHIPMENTS OF HAZARDOUS WASTE			
CHEMICAL NAME OR DESCRIPTION	EPA WASTE NO.	CONC.	% S	%	AMOUNT	UNITS	AMOUNT	UNITS	AMOUNT	INTRA-STATE	INTER-STATE	DESTIN
Waste Hydrofluoric Acid Solution	D002	≤ 2		X	224257	P	None	-	224257P		X	Chemical Management Kettleman
Waste Flammable Liquid, N.O.S. (Waste Solvent Mixture)	D001	Mixture*			360771	P	None	-	360771P		X	"
Waste Xylene	U239	100		X	62698	P	None	-	62698P		X	"
Waste Ethylene Glycol, noether Acetate	D001	100		X	29785	P	None	-	29785P		X	"
Waste Oil, N.O.S.	D001	100		X	3301	P	None	-	3301P		X	"
Waste Arsenical Compound Solid N.O.S.	D004	Material Cont. w/ As O ₃			12800	P	None	-	12800P		X	"
Waste Compound Cleaning Liquid	D001	100 w/ impurities		X	1100	P	None	-	1100P		X	"
Waste Arsenical Compound Liquid	D004	100 oil w/ AsO ₃		X	11555	P	None	-	11555P		X	"

HAZARDOUS WASTE GENERATOR AND TSD FACILITY REPORT

(1) FACILITY NAME: Intel Corporation						(4) EPA ID NUMBER: AZD09123545						
(2) LOCATION: 5000 W. Williams Field Rd, Chandler						(5) TYPE: Generator						
(3) COUNTY: Maricopa						(6) QUARTERLY REPORT QUARTER: YEAR:			ANNUAL REPORT YEAR: 1984			
(7) WASTE TYPE AND CONCENTRATION					(8) GENERATED ON-SITE		(9) RECEIVED FROM OFF-SITE		(10) OFF-SITE SHIPMENT OF HAZARDOUS WASTE			
CHEMICAL NAME OR DESCRIPTION	EPA WASTE NO.	CONC.	%	AMOUNT	UNITS	AMOUNT	UNITS	AMOUNT	INTRA- STATE	INTER- STATE	DESTI	
Waste n-Butyl Acetate	D001	100	X	4769	P	None	-	4769P		X	Chemical Management Kettling	
Waste Isopropanol	D001	100	X	5766	P	None	-	5766P		X	"	
Waste Combustable Liquid, N.O.S. (Stoddard Solvent)	D001	100	X	6190	P	None	-	6190P		X	"	
Waste Sulfuric Acid (Spill)	D002	absorbed		1600	P	None	-	1600P		X	"	
Hazardous Waste Solid N.O.S.	-	absorbed		2400	P	None	-	2400P		X	"	
Waste Flammable Liquid N.O.S. (Waste solvent)	D001	mixture*		1400	P	None	-	1400P		X	"	
Waste Anti-Freeze Compound Liquid	D001	100	X	400	P	None	-	400P		X	ITC Wilmington	
Waste Corrosive Liquid Poisonous	D002 D004	***		400	P	None	-	400P		X	"	

HAZARDOUS WASTE GENERATOR AND TSD FACILITY REPORT

(1) FACILITY NAME: Intel Corporation						(4) EPA ID NUMBER: AZD091235457						
(2) LOCATION: 5000 W. Williams Field Rd, Chandler						(5) TYPE: Generator						
(3) COUNTY: Maricopa						(6) QUARTERLY REPORT QUARTER: YEAR:			ANNUAL REPORT YEAR: 1984			
(7) WASTE TYPE AND CONCENTRATION					(8) GENERATED ON-SITE		(9) RECEIVED FROM OFF-SITE		(10) OFF-SITE SHIPMENT OF HAZARDOUS WASTE			
CHEMICAL NAME OR DESCRIPTION	EPA WASTE NO.	CONC.	Mg/l	%	AMOUNT	UNITS	AMOUNT	UNITS	AMOUNT	INTRA- STATE	INTER- STATE	DESTI
Waste Corrosive Liquid N.O.S.	D002	***			400	P	None	-	400P		X	IT C Wilmington
Waste Caustic Alkali Liquid N.O.S.	D002	***			400	P	None	-	400P		X	Chemical Waste Ketchikan
Waste Xylene	U239	100		X	789	P	None	-	789P		X	IT C Wilmington
Waste Ethylene Glycol Monomethyl Acetate	D001	100		X	514	P	None	-	514P		X	"
Waste Oil N.O.S.	D001	100		X	1238	P	None	-	1238P		X	"
Waste Arsenical Compound Solid N.O.S.	D004	Material Cont. w/As ₂ O ₃			400	P	None	-	400P		X	"
Waste Compound Cleaning Liquid, N.O.S.	D001	100 w/impurities		X	366	P	None	-	366P		X	"
Waste Arsenical Compound Liquid N.O.S.	D004	100 oil w/As ₂ O ₃		X	1238	P	None	-	1238P		X	"

[illegible]

CONTINGENCY PLAN
FOR
INTEL CORPORATION
F6/C2 FACILITY
5000 W. WILLIAMS FIELD ROAD
CHANDLER, AZ. 85224
EPA ID #AZD091235457
REVISED 1-2-85

East of Rural Road opposite the Intel site, the land is zoned agricultural. It is expected that this land will remain in agricultural use for the immediate future.

The land south of Williams Field Road is zoned agricultural and single family residential. The city is encouraging industrial and commercial development along Williams Field Road.

The City of Chandler anticipates significant continued growth.

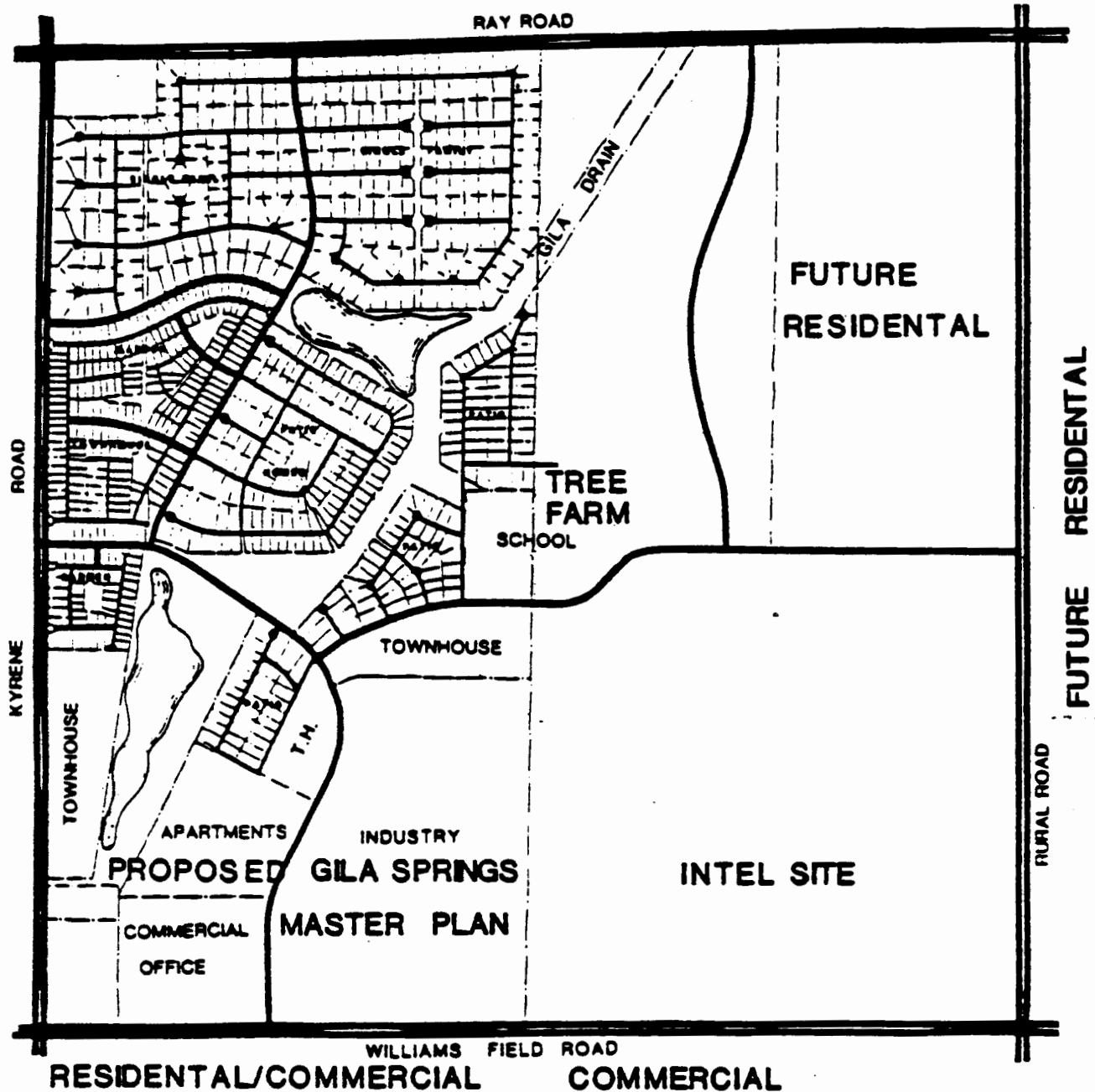
FLORA & FAUNA: That portion of the site which is not currently occupied by Intel buildings, paving or retention basins is farmed. The current crop is onions, and there is no significant native vegetation or wildlife on the property. There is a small bird sanctuary to the north of the property from which small animals may migrate to the site.

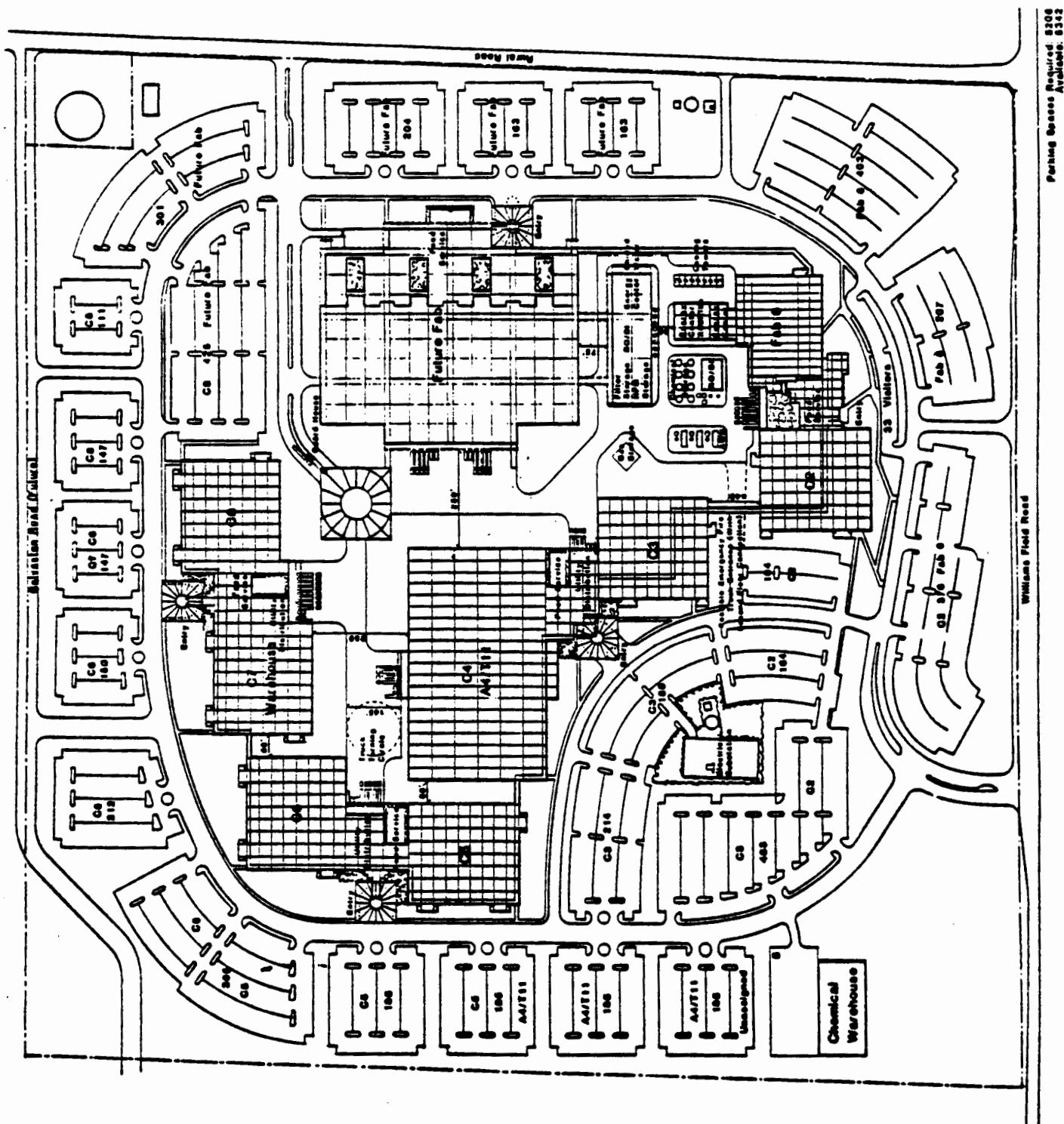
CODES AND ORDINANCES: Development on the Intel site falls under Chandler's Planned Area Development (PAD) ordinance which reads in part:

ARTICLE XVII PLANNED AREA DEVELOPMENTS

*Section 1700.PURPOSE

This District is intended to accomodate, encourage, and promote innovatively designed developments involving residential and non-residential land uses, which together form an attractive and harmonious unit of the community. Such a planned development may be designed as a large-scale separate entity, able to function as an individual community or neighborhood; as a small scale project which requires flexibility because of unique circumstances or design characteristics; or as a transitional area between dissimilar land uses (interface zone). This can be used either as an overlay district to provide flexibility in an otherwise established land use district, or it can be used as an independent district.





Parking Spaces Required: 5200
Available: 6342

II. IMPLEMENTATION OF THE CONTINGENCY PLAN

The contingency plan must be implemented if an imminent or actual incident could threaten the environment or human health.

The contingency plan will be implemented if any of the following occurs:

Spills

The spill could result in release of flammable liquids or vapors, creating a fire or gas explosion hazard.

The spill could cause the release of toxic liquids or fumes.

The spill can be contained on-site, but the potential exists for ground water pollution due to aquifer contamination.

The spill cannot be contained on-site, resulting in off-site soil contamination and/or ground or surface water pollution.

Fires

The fire could cause the release of toxic fumes.

If the fire spreads, it could ignite materials at other locations at the site or cause heat-induced explosions.

The fire could spread to off-site areas.

Use of water or water and chemicals fire suppressant could result in contaminated run-off.

Explosions

An imminent danger exists that an explosion could occur, resulting in a safety hazard due to flying fragments or shock waves.

An imminent danger exists that an explosion could ignite other hazardous waste at the facility.

An imminent danger exists that an explosion could result in release of toxic material.

An explosion has occurred.

III. DUTIES OF THE EMERGENCY COORDINATOR

The Emergency Coordinator is required to perform certain activities and follow certain procedures in an emergency. Whenever there is an imminent or actual emergency situation:

1. The Emergency Coordinator (or his designee when the Emergency Coordinator is on call) must immediately activate internal facility alarms or communication systems to notify all facility personnel, and notify appropriate state or local agencies with designated response roles if their help is needed [265.56 (a) (1) & (2)].
2. If there is a release, fire or explosion, the emergency coordinator must immediately identify the character, exact source, amount and aerial extent of any released materials. This may be done by observation or review of facility records or manifests and, if necessary, by chemical analysis [265.56 (b)].
3. At the same time, the emergency coordinator must assess possible hazards to human health or the environment that must result from the release, fire or explosion [265.56 (c)].
4. If the Emergency Coordinator determines that the facility has had a release, fire or explosion that could threaten human health or the environment outside the facility, he must report his findings as follows. If his assessment indicates that evacuation of local areas may be advisable, he must immediately notify appropriate local authorities. The Emergency Coordinator must be available to help appropriate officials decide whether local areas should be evacuated. He must immediately notify the National Response Center using their 24-hour toll-free number (1-800-424-8802). The report must include: (1) name and telephone number of caller; (2) name and address of facility; (3) time and type of incident (e.g. release, fire); (4) name and quantity of material(s) involved, to the extent known; (5) the extent of injuries, if any; and (6) the possible hazards to human health or the environment outside the facility [265.56 (d) (1)-(2)].
5. During an emergency, the Emergency Coordinator must take all reasonable measures necessary to ensure that fires, explosions and releases do not occur, recur or spread to other hazardous waste at the facility. These measures must include, where applicable, stopping processes and operations, collecting and containing released waste, and removing or isolating containers [265.56 (e)].
6. If the facility stops operations in response to a fire, explosion or release, the Emergency Coordinator must monitor for leaks, pressure build-up, gas generation or ruptures in valves, pipes or other equipment, wherever this is appropriate [265.56 (f)].

Duties of Emergency Coordinator

7. Immediately after an emergency, the emergency coordinator must provide for treating, storing or disposing of recovered waste, contaminated soil or surface water, or any other material that results from a release, fire or explosion at a facility [265.56 (g)].
8. The emergency coordinator must ensure that, in the affected area(s) of the facility: (1) no waste that may be incompatible with the released material is treated, stored or disposed of until clean-up procedures are completed; and (2) all emergency equipment listed in the contingency plan is cleaned and fit for its intended use before operations are resumed. [265.56 (h)].
9. The owner or operator must notify the EPA regional administrator and appropriate state and local authorities that the facility is in compliance with the previous paragraph before operations are resumed in the affected area(s) of the facility [265.56 (i)].
10. The owner or operator must note in the operating record the time, date and details of any incident that requires implementing the contingency plan. Within 15 days after the incident he must submit a written report on the incident to the EPA regional administrator. The report must include: (1) name, address and telephone number of the owner or operator; (2) name, address and telephone number of the facility; (3) date, time and type of incident; (4) name and quantity of material(s) involved; (5) the extent of injuries, if any; (6) an assessment of actual or potential hazards to human health or the environment, where this is applicable; and (7) estimated quantity and disposition of recovered material that resulted from the incident [265.56 (j)].

IV Emergency Response Procedures

Notification Phase

Immediately on discovery of an imminent or actual emergency, the emergency coordinator must:

1. Activate the internal alarm or communication system to notify facility personnel.
 - Are all personnel accounted for?
 - Are there any injuries?
2. Notify state or local agencies with designated response roles if their help is needed.
 - Can facility personnel control the emergency?
 - Emergency response phone numbers: Section VI.
3. Notify EPA on-scene coordinator or National Response Center of incident.
 - Emergency response phone numbers: Section VI.
4. Identify character, exact source, amount and aerial extent of any release material.
 - Is facility evacuation necessary?
 - Identification of hazardous materials: Section IX.
 - Facility evacuation plan: Section VII.
5. Assess hazards to the environment and human health.
6. Determine if evacuation of local area is advisable. If so, notify local authorities.
 - Will prevailing winds carry toxic fumes toward populated area?
 - Is explosion likely?

Control and Containment Phase

During the emergency control phase, the emergency coordinator must:

1. Ensure that proper and adequate measures are taken to response to the incident. If necessary, commit facility resources and incur debts to properly respond.
2. Take measures to ensure the incident does not recur or spread to other hazardous waste at the facility. Shutdown operations if necessary.
3. Monitor equipment for leaks, pressure build-up or other potential problems if operations are shutdown.

Follow-Up and Clean-Up Phase

Following attainment of control, the emergency coordinator must:

1. Provide for treating, storing, disposing or decontaminating of recovered waste, contaminated soil, surface water, ground water or other material resulting from the discharge, in compliance with all Federal, State and Local Regulations.
2. Ensure that clean-up procedures are completed and emergency equipment is fit for use before resuming operations of affected areas.
3. Notify EPA, state and local officials that the facility is in compliance before resuming operation.
4. Place a summary of the incident (time, date and details) in the operating record.
5. Submit written report on the incident to EPA regional administrator and state regulatory authorities within 15 days of the incident.

Potential Spills

1. Overflow of waste solvent tank (see NOTE)
2. Overflow of waste hydrofluoric acid tanks or sump
3. Overflow of caustic clay tank
4. Overfill of acid and caustic regenerant solution tanks in RODI
5. Spill of drummed or tanked water treatment chemicals
6. Spill in dock area of drummed raw or waste chemicals
7. Overturn of tanker truck or flatbed with drums on the Chandler campus
8. Overturn of a cabinet of gallon bottles of acid
9. Spill of drummed or carboys of RODI chemicals.
10. Spill of waste oils around any piece of oil using equipment
11. Overfill or spill of diesel fuel at each of four storage tanks
12. Spill of freon or other drummed materials in C2 area
13. Spill of freon or other drummed materials in Line Maintenance dirty shop
14. Broken solvent or acid line

NOTE: Procedure to discontinue

Applicable Procedures

Spill Clean-Up - See Attached Procedure

Flammable Liquids - See Attached Procedure

Unknown Materials - See Attached Procedure

Known Specific Chemical - Refer to guidebook in ESCT cabinet for appropriate response to a specific chemical

EMERGENCY PROCEDURES
FOR
FLAMMABLE LIQUIDS

Keep unnecessary people away.
Stay upwind; keep out of low areas.
Isolate hazard area and deny entry.
Wear self-contained breathing apparatus and full protective clothing.
ISOLATE FOR 1/2 MILE IN ALL DIRECTIONS IF TANK OR TANKCAR IS INVOLVED
IN FIRE.
FOR EMERGENCY ASSISTANCE CALL CHEMTREC (800)424-9300
Also, in case of water pollution, call local authorities

FIRE

SMALL FIRES: Dry chemical, CO₂, water spray or alcohol foam.
LARGE FIRES: Water spray, fog or alcohol foam.
Move container from fire area if you can do it without risk.
Stay away from ends of tanks.
Cool containers that are exposed to flames with water from the
side until well after fire is out.
For massive fire in cargo area, use unmanned hose holder or monitor
nozzles.
Withdraw immediately in case of rising sound from venting
safety device or discoloration tank.

SPILL OR LEAK

No flares, smoking or flames in hazard area.
Stop leak if you can do it without risk.
Use water spray to reduce vapors.
SMALL SPILLS: Take up with sand, or other noncombustible absorbent
material, then flush area with water.
LARGE SPILLS: Dike far ahead of spill for later disposal.

FIRST AID

Move victim to fresh air; call emergency medical care.
If not breathing, give artificial respiration.
If breathing is difficult, give oxygen.
In case of contact with material, immediately flush skin and
eyes with running water for least 15 minutes.
Remove and isolate contaminated clothing and shoes.

EMERGENCY PROCEDURES
FOR
UNKNOWN MATERIALS

Keep unnecessary people away.
Stay upwind; keep out of low areas.
Isolate hazard area and deny entry.
Wear self-contained breathing apparatus and full protective clothing.
FOR EMERGENCY ASSISTANCE CALL CHEMTREC (800)424-9300
Also, in case of water pollution, call local authorities.

FIRE

SMALL FIRES: Dry chemical, CO2, water spray or foam.
LARGE FIRES: Water spray, fog or foam.
Move container from fire area if you can do it without risk.
Cool containers that are exposed to flames with water from the side until well after fire is out.
For massive fire in cargo area, use unmanned hose holder or monitor nozzles.
If this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

No flares, smoking or flames in hazard area.
Keep combustibles (wood, paper, oil, etc) away from spilled material.
Do not touch spilled material.
SMALL SPILLS: Take up with sand, or other noncombustible absorbent material, then flush area with water.
LARGE SPILLS: Dike far ahead of spill for later disposal.

FIRST AID

Move victim to fresh air; call emergency medical care.
If not breathing, give artificial respiration.
If breathing is difficult, give oxygen.
In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.
Remove and isolate contaminated clothing and shoes.
Keep victim quiet and maintain normal body temperature.

V. COORDINATION AGREEMENTS

CHANDLER

Police: City of Chandler Police Department

Address: 250 E. Commonwealth Avenue
Chandler, Arizona 85224
(602) 963-0911

Contact Person: Randy Stewart

Agreement: To assist in any emergencies requiring evacuation of large areas of involving desruption of traffic in the Chandler area.

Fire: City of Chandler Fire Department

Address: 190 N. Delaware
Chandler, Arizona 85224
(602) 963-0911

Contact Person: John Seffner, Fire Marshall

Agreement: To respond to emergencies such as fires or explosions requiring fire-fighting ability and to provide emergency medical transport.

Mecical: Occupational Medical Center

Address: 5030 S. Mill
Tempe, Arizona 85283
(602) 820-8989

Contact Person: Dr. Edward Best, M.D.

Agreement: To provide general emergency medical facilities including EKG and difibulator, IV's, oxygen and resusitation, suture and dressing of wounds. Any injury potentially involving tendons or nerves should be referred directly to Desert Samaritan.

Or:

Address: Desert Samaritan Hospital
1044 S. Dobson Road
Mesa, Arizona 85205
(602) 835-3700

Contact Person: Jackie Evans, Nursing Administrator

Agreement: To provide complete emergency hospital facilities and and medical transport if necessary.

Electrical Utility: Salt River Project

Address: P.O. Box 1980
Phoenix, Arizona 85001
(602) 236-5309 or 967-2052
236-5743
236-8811 or 236-8822
236-5743

Power Dispatcher
Customer Services
(office hours only)
Customer Information
Center
Routine Electric
Service

Contact Person: Steve Erhman, Customer Energy Management

Agreement: To provide assistance in emergencies which could potentially involve the electrical utility.

Gas Utility: Southwest Gas Company

Address: 2820 W. Kelton Lane
Phoenix, Arizona 85023
(602) 894-6674 or 942-0888

Contact Person: Customer Service Manager

Agreement: To provide assistance in emergencies which could potentially involve the natural gas utility.

Water & Sewer Utility: City of Chandler

Address: 200 E. Commonwealth Ave.
Chandler, Arizona 85224
(602) 899-9756 or after 5 p.m.
899-9740

Contact Person: Paul Bishop, Public Services Manager

Agreement: To provide assistance in emergencies which could potentially involve the water or sewer utility.

Back-Up Spill Response IT Corporation

Address: 336 West Anaheim St.
Wilmington, Ca. 90744
(213) 830-1781

Contact Person: Larry Butler

Agreement: To respond within 2 hours to any emergency Intel's Emergency Coordinator has determined to be beyond internal response capabilities. See attachment for description of service.



IT CORPORATION

Proposal
Emergency Response Services
Intel Corporation

Regional Office

IT Corporation • 6900 East Camelback Road • Suite 700 • Scottsdale, Arizona 85251 • 602-994-0877



IT CORPORATION

May 17, 1984

Proposal
Emergency Response Services
Intel Corporation

IT Corporation is pleased to submit this proposal to provide comprehensive emergency response services to Intel Corporation. IT Corporation has specialized in the decontamination and environmental restoration of air, land and water for more than 50 years. Our large multidisciplinary staff is well acquainted with existing environmental regulations and state-of-the-art response techniques, and is adept at applying their experience and expertise to the evolving challenges of environmental problem solving.

Emergency Response Services

Current environmental laws result in substantial liability exposure for manufacturers, transporters and users of hazardous materials. Thus, our approach to environmental emergency response is based on the concept of total service to the client -- from hazard identification, prevention training, containment, neutralization and removal, through site restoration. In the event of a spill or other environmental emergency, we provide Environmental Emergency Response Teams that are on 24-hour standby. These teams can be on their way to a site within minutes after being contacted by the client via to our nationwide toll-free Emergency Response phone number.

Our Environmental Emergency Response Teams are equipped with a new, totally self-contained, rapid response, airborne mobilization capability. This new generation of specialized equipment allows even faster response to hazardous materials spills throughout the nation and will supplement the existing network of ground-based mobile response units already in place at our facilities in many areas of the country.

We have contracted with Federal Express for delivery of our Environmental Emergency Express Response Units nationwide. Federal Express Corporation

Regional Office

IT Corporation • 6900 East Camelback Road • Suite 700 • Scottsdale, Arizona 85251 • 602-994-0877

is uniquely suited to provide timely field support in critical industries such as Hazardous Materials Emergency Response. They combine centralized warehousing with a nationwide hub in Memphis, Tennessee. The result is a simple but unique system of storage and transportation providing the economies of centralized inventories with the speed of reliable nationwide air service.

Each Environmental Emergency Express Response Unit contains 6,000 pounds of personnel safety and product recovery equipment including self-contained breathing apparatus, first aid equipment, protective clothing, analytical chemical hazard kits, air, soil, and water monitoring devices, transfer pumps, specialized safety tools and materials to contain and control hazardous materials spills plus patching equipment for leaking vessels. Additional equipment which IT Corp. can provide in the event of an environmental emergency is listed in Appendix A.

Each Environmental Emergency Response Team includes specialists in health and safety, chemistry, hazardous material handling, packaging and transportation and on-site containment and treatment. They are backed up by engineers, scientists, toxicologists and analytical chemists experienced with hazardous materials from years of first-hand involvement in hundreds of spill response incidents.

Environmental Emergency Response Team members are selected because they have demonstrated a respect and proficiency for handling hazardous materials. Team members are fully insured and trained to handle the most hazardous assignments. Through experience and our in-house training program they learn and practice skills in safety, equipment operation, hazard recognition, spill containment, control techniques, and mitigation of spill emergencies.

Our Environmental Emergency Response teams are committed to providing the most cost-effective, remedial action for the client. We design our emergency response programs to interface with the in-plant first response unit. When our personnel arrive on-site, we can provide the client with technical support to supplement his activity, or alternatively, we will assume direct responsibility for the response action. Our teams frequently adopt a coordination role with the different interested parties and agencies concerned to ensure an agreed, dedicated approach to solving the problem in the shortest possible time and at a minimum expense to the client.

Our record of operational performance has led to many national, state and local contacts with major corporations and government agencies for Environmental Emergency Response. Descriptions of several emergency response actions that we have successfully directed are provided in Appendix B.

Schedule and Cost

Intel would incur no initial cost nor any monthly fee for contracting with IT Corp. to provide an Environmental Emergency Response Team in the event of a spill or other environmental emergency. Costs to IT Corp. would be on an as-needed basis. A current rate schedule is given in Appendix C. Initiation of this service can begin immediately by signing and returning one copy of the M.S.A.

We trust that this submittal satisfies your requirements at this time and look forward to working with you in this project. If you have any questions concerning this proposal or require further clarification, please do not hesitate to contact me at 213/830-1781.

Sincerely,

Larry Butler
Sales Account Manager

cc: Mr. Terry McManus - Intel
Mr. Kurt Kruger - IT

eb

VI. REQUIRED REPORTS

The Emergency Coordinator will notify:

1. The National Spill Response Center within 24 hours of the incident by phone 1-800-424-8802 to give them the following information:
 - a. Name and telephone number of reporter.
 - b. Name and address of the facility.
 - c. Date, time, and type of incident (e.g. fire, release, etc.)
 - d. Name and quantity of material(s) involved to the extent known.
 - e. The extent of injuries, if any.
 - f. Possible hazards to human health or the environment outside of the facility.
2. Intel's operating log within 24 hours of the incident with a written incident report (see attached) with the required information plus the information in (1).
3. The Region 9 EPA Administrator within 15 days of the incident by certified letter giving the following information:
 - a. Name, address, and telephone number of all owner operator (Note: Provide Intel's address and the Emergency Coordinator as a contact person.)
 - b. Date, time, and type of incident (e.g. fire, explosion, etc.)
 - c. Name and quantity of materials involved.
 - d. The extent of injuries, if any.
 - e. An assessment of actual or potential hazards to human health or the environment where applicable.
 - f. Estimated quantity and disposition of the recovered material that resulted from the incident.

This letter should be sent to:

Region 9 EPA Administrator
215 Fremont Street
San Francisco, California 94105
(415) 974-8155
Attention: John C. Weiss

and copied to:

Technical Assistance Team
153 Kearney Street
San Francisco, California 94108
(415) 781-0816
Attention: Erwin Koehler

4. The Arizona Department of Health Services should be notified by phone at (602) 255-1170 within 24 hours and by certified letter within 10 days giving the information in (1) on the phone and (3) in the letter. The letter should be sent to:

Implementation of Contingency Plan

Immediately upon the discovery of a major incident as defined above, the person making the discovery will notify the security post using an emergency phone or the emergency phone number #2111. Security will:

1. Evaluate the affected area.
2. Notify the appropriate EMERGENCY COORDINATOR(S) or if a fire or explosion has occurred directly call the Fire Department and then notify the EMERGENCY COORDINATOR informing him of any action taken thus far.
3. Notify the Loss Control Team and/or the Emergency Spill Clean-Up Team as appropriate.

The Security personnel will assume responsibility at the scene until the appropriate EMERGENCY COORDINATOR(S) are notified and able to assume his/her duties as EMERGENCY COORDINATOR.

When informed of the incident the EMERGENCY COORDINATOR will implement the Contingency Plan.

Mr. Ted Blac. rn
Spill Response Coordinator
Bureau of Waste Control
Arizona Department of Health Services
1740 W. Adams St.
Phoenix, Az. 85007

Carbon copied to:

Mr. Norman Weiss
Acting Bureau Chief
Bureau of Waste Control
Arizona Department of Health Services
1740 W. Adams St.
Phoenix, Az. 85007

and

Mr. Boyd A. Dover
Acting Director
Arizona Department of Health Services
1740 W. Adams St.
Phoenix, Az. 85007

5. Intel Risk Management - Gary Toms at X78505
Intel Legal - Lori Cimino X78809
Intel Public Relations - Frank Vaughan X4092

Within in 24 hours contact by phone with the information in (1) and copy them on other correspondence at their request.

VII. IDENTIFICATION OF HAZARDOUS MATERIALS

In the event of an emergency involving a hazardous chemical the Emergency Coordinator should determine the type of chemical involved and refer to the manual of Material Safety Data Sheets and the corresponding procedures for that particular chemical located in one of the ESCT supply cabinets. These procedures have been taken from the 1984 Emergency Response Guidebook.

NOTE: Intel would be glad to supply a copy of this manual at ADHS's request.

VIII. REVISIONS OF THE CONTINGENCY PLAN

The contingency plan is not meant to be a static document. The contingency plan must be reviewed and amended immediately if necessary, whenever:

1. Applicable regulations are revised;
2. The plan falls in an emergency;
3. The facility changes in a way that materially increases the potential for incidents or changes the responses necessary to emergencies;
4. The list of Emergency Coordinators changes; or
5. The list of emergency equipment changes.

APPENDIX A

Policies & Procedures

TITLE: LOSS CONTROL TEAM PROCEDURE

EFFECTIVE DATE: 12/06/82

REVISION: 1

WRITTEN BY: Bill Taylor

APPROVED BY:

PAGE 1 OF 4

1.0 Purpose/Scope

- 1.1 To provide a procedure for the establishment and maintenance of Loss Control Teams.

2.0 Definitions

- 2.1 The Loss Control Team (LCT) is an organization designed to respond to general emergencies by evacuating personnel, shutting down utilities and critical systems, coordinate with responding civil authorities, and evaluate property for safety prior to re-entry.

3.0 General3.1 LCT Composition and Responsibilities

3.1.1 LCT Leader

1. Has authority and responsibility over the entire LCT.
2. Evaluates scope of emergency, determines extent of shutdown, evacuation, and building sweep; coordinates with civil authorities, evaluation of property prior to re-entry.
3. Keep LCT staffed and organizational charts up to date. Schedule and conduct LCT meetings.
4. Schedule evacuation drills in conjunction with manufacturing and safety.
5. Insure that a general facility shutdown procedure is written in coordination with facilities and safety. Have this procedure updated semiannually.

3.1.2 Assistant LCT Leader - Primary responsibility is communications within LCT, assumes leaders role if the leader is absent.

3.1.3 Sub-Team Leader - Directs sub-team in completion of responsibilities once dispatched by LCT Leader.

3.1.4 LCT Member - Perform individual function as team member.



Policies & Procedures

TITLE: LOSS CONTROL TEAM PROCEDURE

EFFECTIVE DATE: 12/06/82

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APPROVED BY:

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3.1.5 Sub-Teams

1. Security Team - Receives initial call and activates LCT, notifies affected parties and outside agencies, initiate evacuation alarm, maintain mobile command post, first aid.
2. Facilities Team - Shutdown of critical utilities, energy systems, and PIV inspection.
3. Line Maintenance Team - Shutdown of critical chemical systems, gas systems and equipment.
4. Safety - Advisor to the LCT, performs audits to insure the LCT is operational.
5. Traffic Control Team - Crowd control, headcount, building entrance control, emergency vehicle guide, building sweep.

4.0

Procedure

4.1 Organizing the LCT

- 4.1.1 Each building complex should have its own LCT for each operational shift. FAB buildings should have a separate LCT.
- 4.1.2 LCT leaders and assistant leaders should be appointed by the building manager or equivalent level manager in conjunction with safety.
- 4.1.3 Non FAB LCT leaders should be chosen from facilities managers or supervisors if possible.
- 4.1.4 FAB LCT leaders and assistant leaders must be chosen from line maintenance, facilities, or production managers or supervisors.
- 4.1.5 The first shift LCT leader is responsible for insuring the second and third shift LCT leaders keep their teams active.
- 4.1.6 When a LCT leader is moved to another job the individual filling the LCT leaders former job will automatically assume the role of LCT leader.

4.2 Command Post and Assembly Points

- 4.2.1 The LCT command post and employee assembly points shall be chosen by the LCT leader, Safety and Security.



Policies & Procedures

TITLE: LOSS CONTROL TEAM PROCEDURE

EFFECTIVE DATE: 12/06/82

REVISION: 1

WRITTEN BY: Bill Taylor

APPROVED BY:

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4.3 LCT Training

- 4.3.1 All members of the LCT should be familiar with the shutdown procedures. Shutdown procedures should be reviewed quarterly by all team members during a LCT meeting.
- 4.3.2 All LCT members should receive the following training classes:
 - 1. Activation and shutdown procedure
 - 2. Fire extinguisher use
 - 3. First Aid
 - 4. CPR
- 4.3.3 FAB LCT members should also receive the following training classes:
 - 1. Chemical Awareness and Spill Cleanup
 - 2. Chemical Leak Detection Equipment
 - 3. Self Contained Breathing Apparatus

4.4 LCT Meetings

- 4.4.1 FAB LCT's should meet monthly for a one hour meeting to review LCT staffing and duties. Safety should conduct a training session during part of the meeting.
- 4.4.2 Non FAB LCT's should hold quarterly meetings. Where FAB and non FAB teams exist in the same building complex this meeting can be a joint meeting between both teams to coordinate activities.

4.5 LCT Drills

- 4.5.1 Each LCT should have a semiannual drill where the LCT is presented with a predevise mock emergency by safety. The LCT should go through the maneuvers of handling the situation up to but not including shutdown of equipment or systems. A critique should be held following the drill.
- 4.5.2 These drills should be held in conjunction with practice evacuations whenever possible.

4.6 LCT Equipment

- 4.6.1 Adjacent to the LCT command post should be an emergency equipment area. It should be kept locked with the keys kept at Security which can be made immediately available to the LCT.



Policies & Procedures

TITLE: LOSS CONTROL TEAM PROCEDURE

EFFECTIVE DATE: 12/06/82

REVISION: 1

WRITTEN BY: Bill Taylor

APPROVED BY:

PAGE 4 OF 4

- 4.6.2 Security should inventory the equipment monthly.
See attachment 1 for minimum equipment.

4.7 Activation Procedure

- 4.7.1 The LCT is automatically activated when the general evacuation alarm for the building is sounded. The LCT will assemble at the LCT command post.
- 4.7.2 The LCT can also be activated via a page over the public address system or portions of the team can be activated using personal beepers.

4.8 LCT Audit

- 4.8.1 A LCT monthly audit is conducted by Safety. The audit will access equipment, staffing, level of training and whether meetings and drills are being held according to schedule. See attachment 2.
- 4.8.2 Updated LCT organizational charts should be distributed to Security by the LCT leader.

FAB 6

FACILITY

4/24/84

DATE

FIRST

SHIFT

LOSS CONTROL TEAM STRUCTURE

DAVE SALEWSKI

LCT LEADER

JON VOGEN

ASST. LCT LEADER

* ABSENT

NORM BLACK

FACILITIES
TEAM LEADER

BRE PEDERSEN

LINE MAINT.
TEAM LEADER

MIKE WEST

TRAFFIC CONTROL
TEAM LEADER

LOY BARNES

SECURITY
TEAM LEADER

ELECTRICAL

BUILDING SWEEP

CROWD CONTROL

FIRST AID

BOB WOODRUFF

TED BLACK (P)

SECURITY

CHERYL HOLM (P)

FRED VAN HORN

GEORGE WILTBANK (A)

ED SARLO (A)

WATER/STORAGE TANKS

GAS SYSTEMS/DOWNSTAIRS SWEEP

BLDG. ENTRANCE CONTROL

J.R. SPRATLEN

DANA ORGOVAN (P)

SECURITY

JOHN SNYDER

TIM JONES (P)

ERGY CENTER

ERIK MAGNUSSEN (P)

HEADCOUNT

WAFER SALVAGE TEAM/OTHERS

GRIZZ HORNBUCKLE

EQUIPMENT SHUTDOWN

RANDY BANKS (P)

ERIK GILLMAN

GEORGE ROCKRICH

T. VERNON^P P. CARR^A

HAROLD BOBO (A)

BRAD HOUSTON

INSPECTOR
SIST NURSE

B. HAGUE B. RABENBERG

CHOPPER DIRECTOR

PAT RYAN

MIKE ENGLER (P)

B. DE SHONG

BRE PEDERSEN

HAROLD BOBO

DALE HORNBAKER

G. ANDERSON D. ORGOVAN Swam/Gold

JEFF HODGKINSON

LIST OF ALL EMERGENCY EQUIPMENT

Equipment generally available throughout the building.

FAB BUILDING

1. Fire Extinguishers
2. Self Contained Breathing Apparatus
3. Two-Way Radios
4. Amchem Chemical Spill Compound
5. Verniculite absorbent
6. Acid Gloves
7. Solvent Gloves
8. Chemical Splash Aprons
9. Safety Goggles
10. Face Shields
11. Empty 17H Drums
12. Overpack Drums
13. Forklift
14. Submersible Pump
15. Air Powered Pump
16. Camera
17. Plug-N-Dike
18. Brooms
19. Shovels
20. Plastic Bags

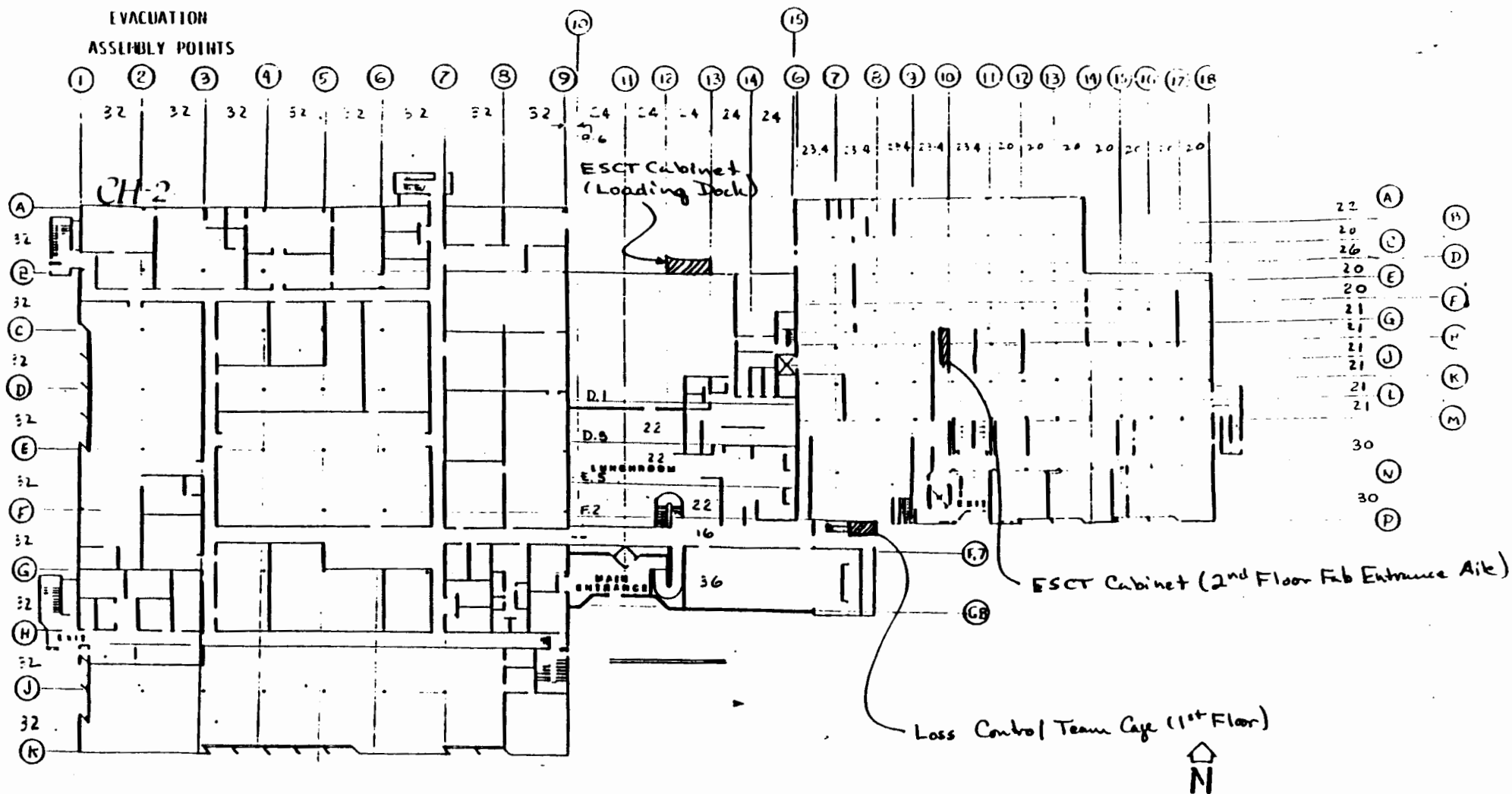
CAMPUS LCT EQUIPMENT (Located in LCT Equipment Cage - See Attached Layout)

1. Two 30 minute self contained breathing apparatus in addition to those in general use in the Fab building
2. 2 - 4 spare air bottles
3. Bull-horn
4. First Air Supplies
5. Safety belts and Lanyards
6. Two-Way Radios
7. Rope
8. Disposable Acid Suits
9. Acid and Solvent Slobes, Faceshields, Acid Aprons
10. 2 Acid Bubble Suits
11. Disposable Coveralls
12. pH Paper
13. Hard Hats
14. Explosion Proof Flashlights and Lanterns
15. Batteries
16. Smoke Ejector

SECURITY MOBILE COMM/ POST _ (Located in Security ' - See Attached Layout)

1. Portable/Remote Telephone
2. Floor Plans of Building, Blueprints and Mr. Clean Maps.
3. Emergency Notification Lists
4. Building Shutdown Procedures
5. LCT Lists
6. Barricade Tape
7. Flares
8. 2 Fluorescent Traffic Vests
9. Detailed Road Maps of Area Around Intel Facilities to Plan Evacuation Routes

*Anything Else Determined by Security or Safety



Intel

ESCT and LCT Emergency Response
Equipment Location

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APPENDIX B

EMERGENCY SPILL CLEAN-UP TEAM PROCEDURE

1.0 TITLE

1.1 Emergency Spill Clean-up Team Procedure

2.0 PURPOSE

2.1 To provide a procedure for the establishment and maintenance of Emergency Spill Cleanup Team.

3.0 SCOPE

3.1 The Emergency Spill Cleanup Team is an organization designed to cleanup minor chemical spills (less than 100 gallons) of hazardous materials, or contain larger chemical spills until outside agency arrives, then assist afterwards, and back up Loss Control Team if emergency situation dictates.

4.0 APPLICABLE FORMS/DOCUMENTS - N/A

5.0 GENERAL

5.1 Organizing the ESCT

5.1.1 ESCT leaders and assistant leaders should be appointed by the Facilities Services Manager, Fab Manufacturing and Materials Manager.

5.1.2 ESCT leaders and assistant leaders must be chosen from Facilities, Fab or Shipping/Receiving, Facilities Engineering, and Safety.

5.1.3 The first shift ESCT leader is responsible for insuring that the second and third shift ESCT leaders keep thier teams active.

5.1.4 When an ESCT leader is moved to another job, the individual filling the ESCT leaders former job will automatically assume the role of ESCT leader, and will attend required training classes as offered (See 5.3).

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5.2 Command Post and Assembly Points

5.2.1 In Fab Team

5.2.1.1 The In-Fab ESCT will assemble in the Fab locker room area.

5.2.2 Campus Team

5.2.2.1 The Campus ESCT will assemble on the loading dock near the Campus ESCT supplies cabinet.

5.3 ESCT Training

5.3.1 All members of the ESCT should be familiar with the chemical cleanup procedures. Cleanup procedures should be reviewed quarterly by all team members during an ESCT meeting.

5.3.2 All ESCT members should receive the following training classes at a minimum of one year intervals. (See Attachment #1).

5.3.2.1 Chemical Handling

5.3.2.2 Detection Equipment

5.3.2.3 Chemical Spill Control

5.3.2.4 SCBA

5.3.2.5 Fire Extinguisher Use

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5.3.3 ESCT members should take additional training classes as follows.

5.3.3.1 Compressed Gas

5.3.3.2 C.P.R.

5.3.3.3 First Aid

5.3.3.4 Environmental Responsibility (Team Leaders Only)

5.3.3.5 EMT (Emergency Medical Technician)

5.3.3.6 Emergency Coordinator (Team Leaders Only)

5.4 ESCT Equipment

5.4.1 Adjacent to the ESCT assembly point should be an emergency equipment area. It should be kept locked with the keys kept at Security, and with all ESCT leaders so it can be available immediately to the ESCT.

5.4.1.1 Dock/Campus Cabinet

5.4.1.2 Fab Cleanroom Cabinet

5.4.1.3 Mobile Spill Trailer

5.4.2 ESCT leaders as designated will inventory the equipment monthly. See Attachment #2 & 3 for minimum equipment.

5.5 Activation Procedure

5.5.1 The ESCT leader will be contacted by Security via pager in the event of a chemical spill.

5.5.2 The ESCT will be activated via a pager. As described in Attachment #4 and 4A.

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5.6 ESCT Audit

5.6.1 A ESCT monthly audit is conducted by ESCT Leaders. The audit will access equipment, staffing, level of training and whether meetings and drills are being held according to schedule. See Attachment 3.

5.6.2 Updated ESCT Pager/Phone Calling list should be distributed to Security and all team members by the ESCT leader. See Attachment #4 and 4A.

5.7 ESCT Meetings

5.7.1 ESCT leaders will meet monthly for a two hour meeting to review ESCT issues and duties.

5.7.2 ESCT members will meet monthly to review staffing and duties. Safety should conduct a training session during part of the meeting.

5.8 ESCT Drills

5.8.1 Each ESCT should have a quarterly drill where the ESCT is presented with a pre-devised mock emergency by Safety. The ESCT should go through the maneuvers of handling the situation up to but not including shutdown of equipment or systems. A critique should be held following the drill.

5.8.1.1 One drill per quarter for Fab ESCT.

5.8.1.2 One drill per quarter for campus ESCT.

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5.9 Clean-Up Procedures

Note: If area must be evacuated of personnel the ESCT leader will contact the LCT (Loss Control Team) leader in charge during emergencies and his/her decision to evacuate is final.

5.9.1 In all cases of spills, the ESCT leader must refer to the "Duties of the ESCT Emergency Coordinator" list and fill out the "Spill Incident Form" (Attachment #5 and #6).

5.9.1.1 Small spill - Evacuate immediate area, unless, due to the nature of the spill (e.g. Phosphine, Arsine, or other highly toxic flammable chemical) the Area Shift Supervisor, ESCT or LCT leader decides to evacuate the entire area.

5.9.1.2 Large Spill - Area or Shift Supervisor, ESCT or LCT leader is responsible for determining the extent of the evacuation.

5.9.1.3 Massive Spill - Evacuate entire area.

5.9.2 Secure the Area

5.9.2.1 Allow no one to enter the spill area except those specifically designated the task of cleaning up the spill and who are wearing the appropriate personal protective equipment.

5.9.3 Contact Security

5.9.3.1 Give the following information: name, what was spilled, size of spill, and if the area has been evacuated.

5.9.3.2 Security will inform the Safety Engineer and appropriate management personnel.

5.9.4 Don appropriate personal protective equipment.

5.9.5 Don self contained breathing apparatus.

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5.9.6 Flammable spill:

5.9.6.1 Move appropriate fire extinguishers to the spill area.

5.9.6.2 Extinguish all sources of ignition and insure that other sources of ignition are not admitted into the spill area (e.g. flashlights that are non-explosion proof).

5.9.7 Dike the spill with asorbent beginning with leading points of liquid flow and working around the perimeter of the spill.

5.9.7.1 Working from the outside to the inside of the spill, sprinkle the absorbent on the spill allowing it to soak up the liquid. Alppy until a dry layer remains on top.

5.9.7.2 For massive spills disregard 5.9.7.1. After diking spill, pick it up with a corrosion resistant non-spark generating wet vac and damp mop. A squeegee and shovel or dust pan can also be used to contain and pick up the spill.

5.9.8 Do not throw water, lab towels, or any other chemical on a chemical spill as this may cause undesirable chemical reactions. These adverse reactions are especially true with POCL, and all strong acids.

5.9.9 Carefully pick up absorbed spill with broom and dust pan or shovel without launching any extra contaminates into the air. Use corrosion resistant, non-spark generating wet vac and damp mop to pick up a massive spill. Wet vac must be emptied and rinsed promptly to prevent corrosion. DO NOT USE HOUSE VACUUM!!

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5.9.10 Place chemical waste into appropriate corrosion resistant barrel.

5.9.11 Damp mop area or, wash down if possible.

5.9.11.1 Non Toxic Corrosives - Wash wet vacs and all other clean up tools and mops in drain in Acid Waste Neutralizer System. Dispose of rinsed non-useable clean-up materials in trash.

5.9.11.2 Solvents - Transport wash mops, brooms, wet vacs and other clean up tools to the Acid Waste Neutralizer System and allow residual amounts of Solvent to evaporate for 24 hours. Dispose of rinsed non-useable clean-up materials in trash.

5.9.12 Label all waste containers according to Waste Chemical Disposal Procedure. Dispose of liquid waste according to the type of spill.

Arsenic Contaminated Materials

55 gal 17-H Opentop Metal Drums

HF Acid Waste

55 gal Opentop Poly or Plastic Drum

*Non Toxic Neutralized Acid Waste

Acid Waste Neutral.

*Non Toxic Unneutralized Acid Waste except for HF

Acid Waste Neutral.

*Non Toxic Unneutralized Base Waste

Acid Waste Neutral.

All Rinsed Bottles

Bottle or Trash Dumpster

Resist Waste

Resist Ring Top 17-H Drum

Solvent

55 Gal. 17-H Opentop Metal Drum

*Non-Toxic corrosives are those not containing heavy metals such as chromium, arsenic, or other poisons.

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6.0 POLICY

6.1 ESCT Composition and Responsibilities

6.1.1 ESCT Leader

6.1.1.1 Has authority and responsibility over the entire ESCT.

6.1.1.2 Evaluates scope of emergency, determines extent of cleanup needs, coordinates with civil authorities and outside agencies.

6.1.1.3 Keep ESCT staffed and organizational charts up to date and conduct ESCT meetings.

6.1.2 Assistant ESCT Leader

6.1.2.1 Primary responsibility is communications within ESCT, assumes leaders roll if the leader is absent.

6.1.3 Sub-Team Leader

6.1.3.1 Directs sub-team incompletion of responsibilities once dispatched by ESCT leader.

6.1.4 The Fab-Team Leader

6.1.4.4 Supervises Emergency Cleanup efforts within Fab Clean Room.

6.1.5 Campus Team Leader

6.1.5.1 Supervises Emergency Cleanup efforts exterior to Clean Room.

6.1.6 ESCT Member

6.1.6.1 Performs individual function as assigned.

7.0 RESPONSIBILITIES - N/A

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ATTACHMENT #2

MONTH: _____

E.S.C.T. SUPPLY INVENTORY

DESCRIPTION:	UNIT	IN-PAS				CAMPUS				TRAIL				TOTAL:		
		MAX:	MIN:	AVAIL:	ORD:	MAX:	MIN:	AVAIL:	ORD:	MAX:	MIN:	AVAIL:	ORD:	MAX:	MIN:	ORD:
PH PAPER TESTER	EACH	6	4			20	10			10	5	10		36	19	
MARKING PEN	EACH	4	2			12	6			5	3	5		21	11	
ACID GLOVES (ORANGE)	BOX	2	1			2	1			2	1	2		6	1	
SOLVENT GLOVES (GREEN)	BOX	2	1			2	1			2	1	2		6	1	
FACE SHIELD	EACH	5	3			5	3			5	3	5+		15	9	
DISPOSABLE ACID SUIT	EACH	20	10			20	10			20	10	20+		60	30	
ACID APRON	EACH	10	5			10	5			10	5	10+		30	15	
BARRACADE TAPE	ROLL	5	2			10	5			10	5	10+		25	12	
DUCT TAPE	ROLL	5	2			10	5			10	5	10+		25	12	
FLASHLIGHT	EACH	2	1			10	5			10	5	8		22	11	
BATTERIES(SIZE D)	EACH	4	2			20	10			20	10	10		44	22	
CHEMICAL LIGHT	EACH	N/A	N/A			20	10			20	10	20		40	20	
RUBBER BOOTS	PAIR	6	3			15	10			15	10	15+		36	23	
ADJUSTABLE WRENCH(M)	EACH	1	1			2	1			2	1	2		5	3	
PLASTIC BOTTLE PAIL	EACH	4	2			4	2			4	2	0		12	6	
BARRACADE CONE	EACH	4	3			4	3			4	3	4		12	9	
MOP	EACH	2	1			N/A	N/A			2	1	3		4	2	
BUCKET/WRINGER	EACH	2	1			N/A	N/A			2	1	2		4	2	
VET VAC	EACH	1	0			N/A	N/A			N/A	N/A	N/A		1	0	
DISPOSABLE COVERALL(TYVEK)	EACH	6	3			20	10			20	10	10		46	23	
AMICHEN ABSORBANT	BUCKET	20	15			20	10			10	5	0		30	30	
GARDEN HOSE (50 FT)	EACH	N/A	N/A			2	1			2	1	2		4	2	

NOTE: _____

E.S.C.T. SUPPLY INVENTORY		IN-PAD				CAMPUS				TRAIL				TOTAL:		
DESCRIPTION:	U/M:	MAX:	MIN:	AVAIL:	ORD:	MAX:	MIN:	AVAIL:	ORD:	MAX:	MIN:	AVAIL:	ORD:	MAX:	MIN:	ORD:
CARRIAGE BAGS (800)	DOZ	2	1			2	1			2	1	1		4	3	
ROUND END SHOVEL	EDGE	N/A	N/A			5	3			3	3	3		8	6	
FLAT END SHOVEL	EACH	1	0			5	3			3	3	4		9	6	
RAKE	EACH	N/A	N/A			3	2			3	2	4		4	4	
DUSTPAN	EACH	2	1			3	2			3	2	2		8	5	
STIFF BRISTLE BROOM (24")	EACH	2	1			5	3			5	3	3		12	7	
HIPCUT HAND SAW	EACH	N/A	N/A			2	1			2	1	1		4	2	
CROSSCUT HAND SAW	EACH	N/A	N/A			2	1			2	1	1		4	2	
PLASTIC SHEET	ROLL	N/A	N/A			1	.5			1	.5	1		2	1	
EMER. COORD. DUTY CHECKLIST	EACH	5	3			5	3			5	3	1		15	9	
SPILL INCIDENT FORM	EACH	20	10			20	10			20	10	20		40	30	
EMER. RESPONSE GUIDEBOOK	EACH	1	0			1	0			2	1	1		3	1	
VERMICULITE (50 LBS)	BAG	N/A	N/A			10	5			6	3	20		10	8	
LINE (50 LBS)	BAG	N/A	N/A			3	2			3	2	1		6	4	
RECOVERY DRUM	EACH	N/A	N/A			10	5			6	3	12		16	8	
FIRE EXTINGUISHER	EACH	N/A	N/A			N/A	N/A			2	1	4		2	1	
SCRUB PAD	EACH	2	1			2	1			2	1	4		6	3	
HOSES/SPRAYERS	EACH	N/A	N/A			2	1			2	1	4		4	2	
DRUMS (BLUE)	EACH	N/A	N/A			2	1			2	1	2		4	2	
DRUMS (POLY LINED)	EACH	N/A	N/A			2	1			2	1	0		4	2	
GOGGLES	EACH	5	3			5	3			5	3	0		15	9	
KITTY LITTER	EACH	N/A	N/A			3	3			5	3	0		10	6	
SIGNAL FLARES	EACH	N/A	N/A			5	3			5	3	0		10	6	
15/16 SOCKET	EACH	1	1			1	1			3	1			3	3	
BARRELL PUMP	EACH	N/A	N/A			N/A	N/A			1	1			1	1	
EXTENSION CORD	EACH	N/A	N/A			2	2			3	2			5	4	
HAZARDOUS WASTE LABELS	PKG.	1	1			1	1			1	1			3	3	
DEGREASER SET	SET	1	1			1	1			1	1			3	3	

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ATTACHMENT #3

EMERGENCY SPILL CLEANUP TEAM AUDIT FORM

Auditor _____

Month _____

Team _____

Shift _____

A. % Staffed _____

$\frac{\text{Filled Positions}}{\text{Total Positions}} \times 100 = \% \text{ Staffed}$

B. % Equipment in place _____

C. % Trained _____

D. % Meetings and drills _____

a. Meetings scheduled in last 6 months _____

b. Meetings held in last 6 months _____

c. Drills scheduled in last months _____

d. Drills held in last 6 months _____

$$\left[\frac{\frac{b}{a} + \frac{d}{c}}{2} \right] \times 100 = \% \text{ Meeting and drills}$$

Total audit status _____

$$\frac{A + B + C + (3 \times D)}{6} = \text{Total Status}$$

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NOTE: For Digital Pager, precede return call code with "000"

Call Leaders First OnAll Incidents

	Ext	Page	Home
SCT Leader - M. Smith	2256	227-0852	
Asst. SCT Leaders - D. Moore	5870	251-1128	963-0564
- K. Pate	5871	251-6704	963-3264
- J. Hodgkinson	8223	251-6729	890-9310
- H. Fyffe	8384	261-9184	992-8992
Safety Engineer - B. Taylor	5808	270-1150	838-1432
- P. Murphy	5809	270-1120	835-7783
Nurse - 1st Sh - Cheryl Holm	2323	022	831-0328
2nd Sh - Pam Foster	2323	022	830-2985
3rd Sh - Patricia Myers	2323	022	834-1226

In Fab (Home Phone)Campus (Home Phone)1st Shift -

S. Brenner X-2067 (982-2088)
 F. Delion 036 (995-2183)
 A. Alvey 250 (986-9298)
 J. Dodson *139 (899-0851)
 E. Proctor 024 (899-0746)
 R. Ponze 120 (820-5894)

P. Tome 251-7325 (964-9292)
 F. Barreras X-2067 (898-3390)
 E. Proctor 024 (899-0746)
 S. Rayburn 066 (834-8731)
 G. Hornbuckle 192 (990-7509)
 G. Harvey 148 (820-3625)
 R. Ponze 120 (820-5894)
 N. Coates 127 (838-1730)

2nd Shift -

K. Loftis *139 (897-0275)
 R. Gowdy X-2067 (969-5405)
 J. Westrich 123 (985-4004)
 A. Fairbanks - Radio (984-1703)
 B. Maders 250 (831-2319)
 R. Kennedy 251
 M. Myers 036 (831-5169)

K. Loftis *139 (897-0275)
 R. Gowdy X-2067 (969-5405)
 J. Westrich 123 (985-4004)
 A. Fairbanks - Radio
 J. Martin 056 (833-7698)
 A. Glass 066 (942-4153)
 N. Kroes-2071 (899-9026)

3rd Shift -

J. Halchishick *139 (832-2937)
 B. Holman 036 (829-0518)
 R. Riazzi - Radio (839-1085)
 A. Lopez x2067 (839-2440)
 J. Garza 123 (897-6105)
 J. Miller 250 (899-4502)
 R. Vanez x2067 (963-3289)
 D. Hamilton - Radio (873-0204)

J. Halchishick *139 (832-2937)
 B. Holman 036 (968-2665)
 R. Riazzi - Radio (893-1085)
 J. Martin 125 (890-2969)
 R. Henry 034 (947-0756)
 E. Corral (969-9227)
 J. Rardon x2067

*Shift CoordinatorNOTE: In event of weekend or holiday, first call SCT Leader, Asst. SCT Leaders, and one of the Shift Coordinators.Misc. Phone Numbers

	Ext.	Page	Home
J. Keeler (Mgr. Fac. Services)	5847	261-9005	
E. Boot (Mgr. Az. Site Services)	5801	--	
T. Lane (Mgr. Safety Department)	5804	270-1161	892-5722
T. McManus (Corp. Envir. Engr.)	4812	--	967-6916

Loss Control Team Leaders

	Ext.	Page
1st Sh - D. Salewski	2050	--
J. Vogen (Asst.)	8014	261-9272
2nd Sh - D. King	2036	153
D. Moore (Asst.)	2017	093
3rd Sh - D. Smith	2722	--

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ESCT WEEKEND CALL LIST

(5PM FRIDAY TO 8AM MONDAY, CAMPUS & FAB)

<u>WEEKEND</u> (Fri,Sat,Sun)	<u>NAME</u>	<u>PAGER</u>	<u>HOME</u>
1-11,12,13	K. Pate	251-6704	963-3264
1-18,19,20	J. Hodgkinson	251-6729	890-9310
1-25,26,27	K. Loftis		897-0275
2-1,2,3	P. Tome	251-7325	964-9292
2-8,9,10	D. Moore	251-1128	963-0564
2-15,16,17	G. Dodson		899-0851
2-22,23,24	M. Smith	227-0852	
3-1,2,3	K. Pate	251-6704	963-3264
3-8,9,10	J. Hodgkinson	251-6729	890-9310
3-15,16,17	K. Loftis		897-0275
3-22,23,24	P. Tome	251-7325	964-9292
3-29,30,31	D. Moore	251-1128	963-0564
4-5,6,7	G. Dodson		899-0851
5-12,13,14	M. Smith	227-0852	

- NOTE:
- o This weekend call list to be posted at FAB-6 Security Desk.
 - o During weekend keep FAB-6 Security (961-2160) notified as follows:
 - For those with Digital Pagers notify Security if more than 20 minutes away from Intel FAB-6.
 - For those without Digital Pagers notify Security whenever away from home phone.
 - o A substitute must be determined if any conflict occurs. This is the complete responsibility of the person on-call. Security must be notified of any changes.
 - o Security must call other ESCT leaders of shift coordinators if weekend call person cannot be reached after attempted page or call.

/sr

DUTIES OF THE ESCT EMERGENCY COORDINATOR

- o A person discovering a spill should give the following information to Security (x2160):
 - Material spilled
 - Estimated quantity
 - Location
 - Time
 - Name of caller
- o ESCT leader or shift coordinator should assess magnitude of spill incident:
 - Type of material?
 - Size of spill?
 - Toxic, flammable, or corrosive?
 - Area evacuation necessary?
 - Shutdown nearby equipment?
 - Alert/call Fire Department (963-0911)?
 - Notify National Spill Response Center (1-800-424-8802) and Arizona Department of Health Services (call 602-255-1170 within 24 hours) if major release or evacuation?
- o Call Security (x2160) to assemble ESCT member, if required. Assemble LCT, if required.

NOTE: For outside area spills, a radio should be immediately picked up from Security (use team member, not leader, to pick up radio).

- o All personnel involved in spill clean-up wear protective equipment:
 - Rubber gloves
 - Goggles/face shield
 - Rubber apron/full suit
 - Rubber boots
 - SCBA
 - Area ventilation
 - Fire extinguisher on hand
 - Location of nearest safety shower/eyewash station
- o Check type of spill and danger to personnel
 - Acid or base (pH paper)
 - Solvent (flammable vapor sensor)
 - Toxic (Draeger Tube)
- o Block off area with barricade tape to limit access to properly protected ESCT members only
- o Dike around spill with sand/vermiculite to contain spread
- o Do Not mix acids and bases, or corrosives and solvents
- o Absorb spill with sand/vermiculite
- o Shovel up absorbant and contaminated soil, wood, or boxes into waste drum

- o Test area ground, soil and walls for residual contamination
 - If still major contamination, may need to continue excavation/clean-up
 - If minor, may need to flush with water or damp mop for acids/bases or let evaporate for solvents
- o Discard used mop heads and broom bristles in waste drums
- o Wash all other clean-up tools and protective equipment
- o Label drums as follows:
 - Date
 - Coordinator's name
 - Spill incident description (brief)
 - Drum number of total number, e.g. "#1 of 5"
 - Drum contents description
 - Warning as appropriate to type of chemical, e.g. "Flammable", "Corrosive", etc.

NOTE: Fill out entire spill incident report sheet while clean-up is being performed and give to ESCT leader after incident.

SPILL INCIDENT REPORT

DATE AND TIME OF INCIDENT:

EMERGENCY COORDINATOR:

LOCATION OF INCIDENT:

DESCRIPTION AND ESTIMATED QUANTITY OF SPILL MATERIAL:

ASSESSMENT OF ANY CONTAMINATION AND DAMAGE:

DESCRIPTION AND TIME LENGTH OF CLEAN-UP AND EVACUATION, IF REQUIRED:

NOTIFICATIONS REQUIRED DURING SPILL INCIDENT (PERSON CALLING, PERSON CONTACTED, REASON, TIME):

WASTE DRUMS (NUMBER & CONTENTS):

(Continued On Other Side)

NAMES OF PEOPLE INVOLVED IN INCIDENT:

_____	_____
_____	_____
_____	_____

NAMES OF PEOPLE INVOLVED IN CLEAN-UP:

_____	_____
_____	_____
_____	_____

LIST TOOLS AND SUPPLIES CONSUMED FOR REORDERING:

<u>ITEM</u>	<u>QUANTITY</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

COMMENTS, OBSERVATIONS AND SUGGESTIONS ON SPILL CLEAN-UP PROCEDURE AND INCIDENT:



TO LIST
FROM Faith Kopp, C2-686, x2832

DATE May 18, 1984

SUBJECT ESCT Training

CC L. Barnes

LIST: Team Leaders

Team Members

A. Mahoney
D. Moore
K. Pate
B. Taylor
P. Tome
K. Loftis
J. Halchishick
R. Brown
J. Hodgkinson

S. Brenner
F. Delion
A. Alvey
B. Maders
G. Hornbuckle
F. Barreras
J. Worsham
S. Rayburn
N. Coates
C. Rodgers
R. Gowdy
R. Hurst
J. DarrenKamp
J. Westrich
B. Holman
V. Garcia
F. Milligan
E. Proctor
R. Riazzi
J. Martin

E. Boot
H. Fyffe
J. Keeler
T. McDonald
B. Phillips
D. Salewski
E. Wagner
J. Vogen

The following training schedule has been planned for all ESCT members. Please plan to attend.

<u>Who</u>	<u>Day</u>	<u>Date</u>	<u>Time</u>	<u>Where</u>	<u>What</u>
1st & 2nd Shift	Wednesday	6/6	3:00-4:00	Back Dock	Small Fire Fighting
1st & 2nd Shift	Friday	6/8	1:30-5:30	Rm 221	Basic Chem. Awareness
1st & 2nd Shift	Wednesday	6/13	1:30-5:30	Back Dock	SCBA & Cleanup Drill
3rd Shift	Thursday	5/31	7:00-8:00	Back Dock	Small Fire Fighting
3rd Shift	Thursday	6/7	5:00-9:00	Rm 205	Basic Chem. Awareness
3rd Shift	Thursday	6/14	5:00-9:00	Back Dock	SCBA & Cleanup Drill

APPENDIX CFILE: GENERAL EVACUATION
PROCEDURE

EFFECTIVE DATE: 9/20/82

REVISION: 0

WRITTEN BY: BILL TAYLOR

APPROVED BY:

PAGE 1 OF 2

1.0 Purpose

Establishes the procedure for evacuation during a major emergency in any Intel facility.

3.0 General

3.1 Evacuation drills will be conducted annually in all buildings and covering all work shifts.

3.2 The Security Department and Loss Control Teams have additional procedures covering their actions during evacuations.

4.0 Procedure

Employee discovering
the emergency.

4.1 Call the emergency number.

Security

4.2 Activate the appropriate evacuation alarm or Loss Control Team (as per Security Procedures).

Employees

4.3 When the alarm sounds in your building stop all work, shut off equipment as previously directed by your supervisor. Quickly walk to the nearest exit. Do not stop for personal belongings. Go to designated staging area and stay there until released by supervisor. Do not re-enter the facility until so instructed.

Supervisors

4.4 Make sure all of your employees are leaving the building. Report to the assembly point.

Loss Control Team

4.5 Sweep the building to insure all employees are/have exited.

Supervisors

4.6 Conduct a headcount of all your employees. Report the names of employees thought to still be in the building and their last known location to the Loss Control Team.



FILE: GENERAL EVACUATION
PROCEDURE

EFFECTIVE DATE: 9/20/82

REVISION: 0

WRITTEN BY: BILL TAYLOR

APPROVED BY:

PAGE 2 OF 2

Loss Control Team Leader

4.7 Evaluate the scope and nature of the emergency and order re-entry of building when appropriate. (as per Loss Control Team procedures).

5.0 Responsibilities

5.1 The person discovering any potential life threatening emergency has the responsibility for immediately notifying Security via telephone.

5.2 Supervisors in addition to responsibilities in Section 4.0:

- .1 Communicate this evacuation plan to all your employees every six months, and to all new employees within two weeks of hire.
- .2 Identify alternate exits, any equipment shutdown procedures you may have, and your assembly point. Communicate this information to your employees.
- .3 Develop a plan to make sure your handicapped employees will be able to safely evacuate the building.

5.3 Security responsibilities are covered in a separate procedure, but generally include providing radio communications, traffic control, perimeter control, and preventing employees from re-entering the building before the all-clear signal is given.

5.4 Loss Control Team responsibilities are covered in a separate procedure, but generally include sweeping the building upon hearing the evacuation alarm, taking charge at the command post, and ordering re-entry of the building when appropriate.

5.5 Safety Department

- .1 Schedule evacuation drills.
- .2 Update the evacuation plan annually.
- .3 Audit all evacuations.



TITLE: CAMPUS EVACUATION

EFFECTIVE DATE: 9/20/82

REVISION: 0

WRITTEN BY: Bill Taylor

APPROVED BY:

PAGE 1 OF 2

1.0 Purpose/Scope

Establish guidelines that will allow an Intel Campus to totally evacuate all personnel from Intel property while minimizing loss of product and injury to employees.

2.0 General

- 2.1 Major incidents involving highly toxic and hazardous material occur regularly on highways and railways. Often, when such incidents occur, civil authorities evacuate large areas around the accident. Many Intel campuses have close proximity to a major railway or interstate highway.
- 2.2 In the area surrounding many Intel locations are a number of companies using highly toxic and hazardous materials. An accident at these companies could involve an evacuation of Intel by civil authorities.
- 2.3 If Intel were to be evacuated by civil authorities the evacuation would need to begin immediately and proceed quickly. All employees including security would need to leave the building. At best there would be 15-30 minutes available to salvage product and shut down equipment. Re-occupation of the building could only occur after the area has been cleared by civil authorities.

3.0 Procedure

- 3.1 Once the order to evacuate has been received by security from the civil authority (fire department, police, highway patrol, etc.) Security will call the Loss Control Teams to assemble. Security should also call the Security Manager, Safety, and building managers. These individuals should be kept on a call list at Security.
- 3.2 Security and Loss Control Team personnel will be posted at strategic points to direct traffic.
- 3.3 An announcement will then be made over the public address system that the entire campus is to be evacuated. This announcement should be in written form and kept on file at the security desk. The announcement should give directions as to the route to use leaving the facility and include orders for all employees to return to work the following day unless notified by phone otherwise. A predesignated radio station could be utilized for notification purposes.



TITLE: CAMPUS EVACUATION

EFFECTIVE DATE: 9/20/82

REVISION: 0

WRITTEN BY: Bill Taylor

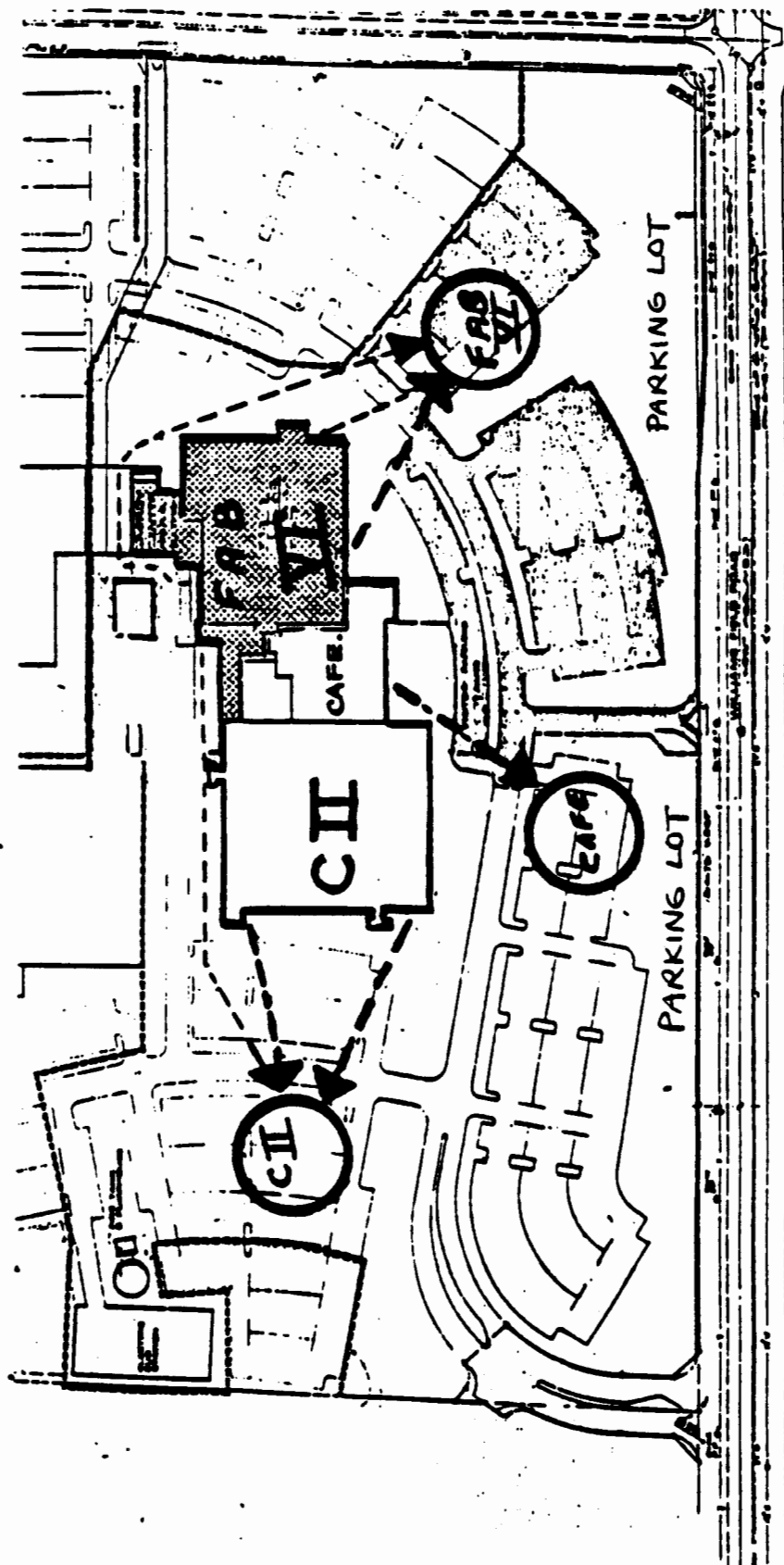
APPROVED BY:

PAGE 2 OF 2

- 3.4 Personnel Department will immediately begin notifying as many people as possible on the following shifts not to come to work. The emergency call lists on file at Security could be used for this purpose.
- 3.5 While the building is evacuating, the Loss Control Team, with the assistance of Engineering or Production personnel as needed, will re-enter the fabrication area for equipment shutdown and wafer salvage. Production and Engineering should prioritize equipment and wafer salvage operations as time may be very limited for this operation.

Supervisors should lock all storerooms, production areas, laboratories, and document control areas. Lab equipment should be unplugged and covered with plastic if possible to prevent water or chemical damage. Process equipment, ovens and experiments should be shut down.
- 3.6 Once employees have evacuated the building the Loss Control building sweep team should quickly check to insure that all buildings are empty and report to the Loss Control Team Leader.
- 3.7 Facility maintenance team will stand-by until orders are given by the Loss Control Team Leader to start building shutdown. Loss Control Team will need to decide whether to conduct a total shutdown (per Emergency shutdown checklist) or a partial shutdown.
- 3.8 A final headcount will be taken of all Loss Control, Wafer Salvage, Facility and Security Teams. All buildings will then be locked up by security and the campus will be totally evacuated.

ARROWS DENOTE ROUTES TO EVACUATION ASSEMBLY POINTS



ATTACHMENT D -- REVIEW OF STATE'S REPORT

Inspector's narrative described Intel's waste storage practices in tanks adequately. However, the inspector failed to mention the containerized storage area and the types of waste Intel stores in drums. This is especially important at Intel since they had violations associated with their containerized storage area.

Inspector noted that the containerized storage area was not being properly managed. The waste was being spilled on the drums and floor. But the inspector did not site a violation for this.

Inspector failed to site violation of 40 CFR 265.52(d). The copy of the contingency plan included as Attachment (E) does not contain home addresses of the emergency coordinators.

CONFIDENTIAL

CONTINGENCY PLAN
FOR
INTEL CORPORATION
F6/C2 FACILITY
5000 W. WILLIAMS FIELD ROAD
CHANDLER, AZ. 85224
EPA ID #AZD091235457
REVISED 1-2-85

INTEL CHANDLER F6/C2 FACILITY CONTINGENCY PLAN

TABLE OF CONTENTS

- I. Facility Identification and General Information
- II. Implementation of Contingency Plan
- III. Duties of the Emergency Coordinator
- IV. Emergency Response Procedures
- V. Coordination Agreements
- VI. Required Reports
- VII. Identification of Hazardous Materials
- VIII. Revision of the Contingency Plan

APPENDICES: EMERGENCY PROCEDURES AND EQUIPMENT

- A. Loss Control Team Procedure and Equipment
- B. Emergency Spill Cleanup Team Procedure and Equipment
- C. Evacuation Procedure and Route

I. FACILITY IDENTIFICATION AND GENERAL INFORMATION

Address:

Intel Corporation
5000 West Williams Field Road
Chandler, Arizona 85224

Phone:

Security Phone Number
602/961-2160

Facility Site Plan:

See attached drawing for facility location and layout.

LOCATION: Intel occupies 159 acres which is the southeast quarter of a section bounded on the north by Ray Road, on the east by Rural Road, on the south by Williams Field Road and on the west by Kyrene Road.

BACKGROUND: In 1978 Intel purchased 80 acres of land on Williams Field Road in the City of Chandler, Arizona. The purpose of the acquisition was to provide a location for the construction of a facility to fabricate computer chips and other computer related products as manufactured by Intel. In 1980, the first building was completed and construction was begun on a second building. At that point, it became apparent that the 80 acre site might prove to be too small, so in 1981 Intel purchased an adjoining 80 acres bringing the total to a 160-acre quarter section.

ADJACENT DEVELOPMENT: The northwest quarter of the section is planned for residences in the form of single family, detached, patio homes, and garden townhouses. Gila Drain traverses the quarter section from northeast to southwest. The drainage way has been landscaped with lakes, and sculpture added. Construction has not begun on the infrastructure or dwellings.

The northeast quarter of the section is zoned for agriculture use. Residential uses are anticipated for the future. Currently, there are no improvement plans for the area. A tree farm occupies a portion of the quarter section.

Several uses are planned for the southwest quarter section. On Kyrene Road there will be townhouses backed by a lake and then apartments. The corner of Kyrene Road and Williams Field Road is set aside for commercial offices. The eastern half of the quarter section is designated for industrial use.

A school site of approximately eleven acres is planned for the center of the section. About 2 3/4 acres of the site would be on what is currently Intel property.

East of Rural Road opposite the Intel site, the land is zoned agricultural. It is expected that this land will remain in agricultural use for the immediate future.

The land south of Williams Field Road is zoned agricultural and single family residential. The city is encouraging industrial and commercial development along Williams Field Road.

The City of Chandler anticipates significant continued growth.

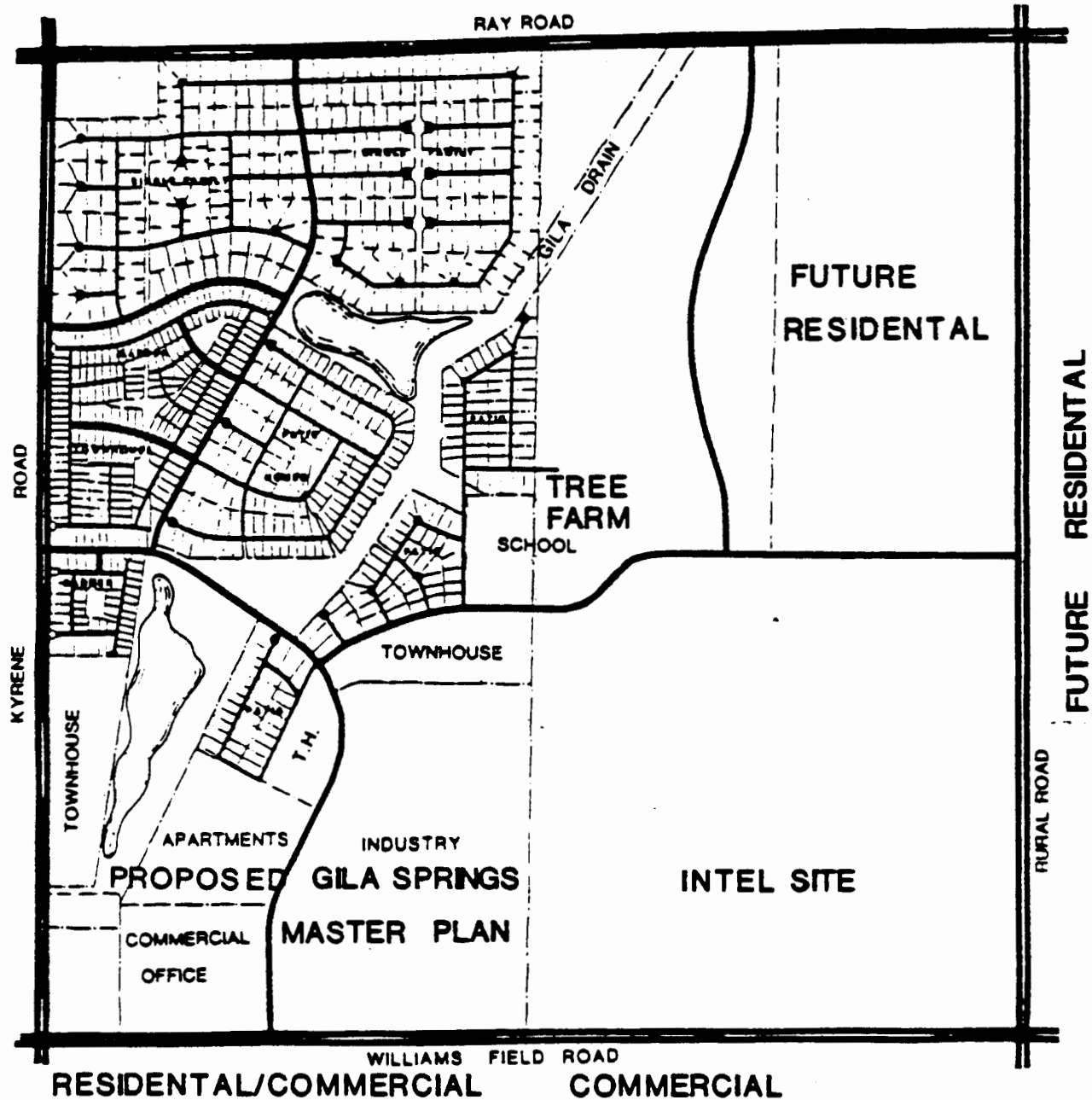
FLORA & FAUNA: That portion of the site which is not currently occupied by Intel buildings, paving or retention basins is farmed. The current crop is onions, and there is no significant native vegetation or wildlife on the property. There is a small bird sanctuary to the north of the property from which small animals may migrate to the site.

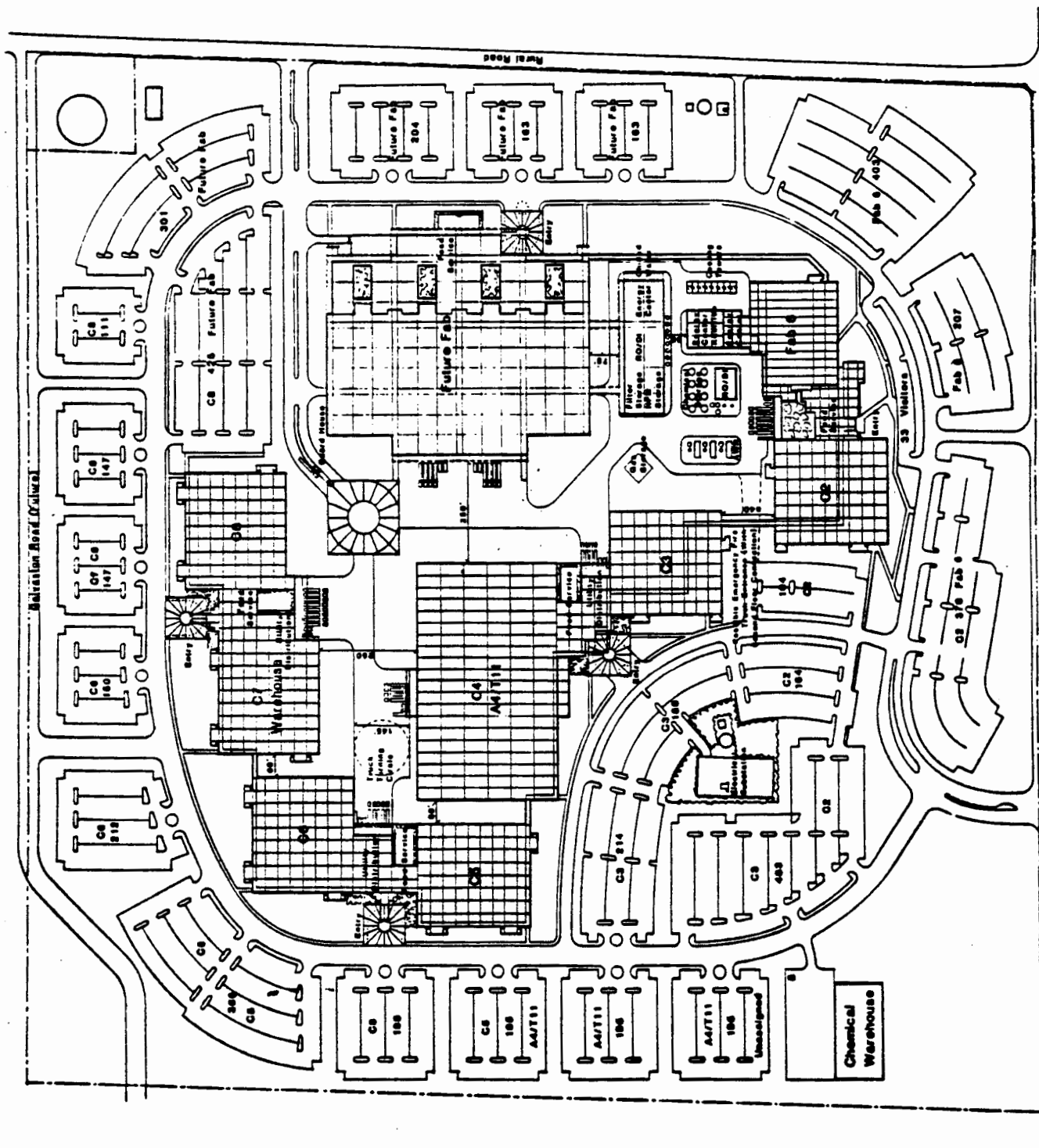
CODES AND ORDINANCES: Development on the Intel site falls under Chandler's Planned Area Development (PAD) ordinance which reads in part:

ARTICLE XVII PLANNED AREA DEVELOPMENTS

*Section 1700.PURPOSE

This District is intended to accomodate, encourage, and promote innovatively designed developments involving residential and non-residential land uses, which together form an attractive and harmonious unit of the community. Such a planned development may be designed as a large-scale separate entity, able to function as an individual community or neighborhood; as a small scale project which requires flexibility because of unique circumstances or design characteristics; or as a transitional area between dissimilar land uses (interface zone). This can be used either as an overlay district to provide flexibility in an otherwise established land use district, or it can be used as an independent district.





Parking Spaces Required: 8208
 Available: 8342

II. IMPLEMENTATION OF THE CONTINGENCY PLAN

The contingency plan must be implemented if an imminent or actual incident could threaten the environment or human health.

The contingency plan will be implemented if any of the following occurs:

Spills

The spill could result in release of flammable liquids or vapors, creating a fire or gas explosion hazard.

The spill could cause the release of toxic liquids or fumes.

The spill can be contained on-site, but the potential exists for ground water pollution due to aquifer contamination.

The spill cannot be contained on-site, resulting in off-site soil contamination and/or ground or surface water pollution.

Fires

The fire could cause the release of toxic fumes.

If the fire spreads, it could ignite materials at other locations at the site or cause heat-induced explosions.

The fire could spread to off-site areas.

Use of water or water and chemicals fire suppressant could result in contaminated run-off.

Explosions

An imminent danger exists that an explosion could occur, resulting in a safety hazard due to flying fragments or shock waves.

An imminent danger exists that an explosion could ignite other hazardous waste at the facility.

An imminent danger exists that an explosion could result in release of toxic material.

An explosion has occurred.

Implementation of Contingency Plan

Immediately upon the discovery of a major incident as defined above, the person making the discovery will notify the security post using an emergency phone or the emergency phone number #2111. Security will:

1. Evaluate the affected area.
2. Notify the appropriate EMERGENCY COORDINATOR(S) or if a fire or explosion has occurred directly call the Fire Department and then notify the EMERGENCY COORDINATOR informing him of any action taken thus far.
3. Notify the Loss Control Team and/or the Emergency Spill Clean-Up Team as appropriate.

The Security personnel will assume responsibility at the scene until the appropriate EMERGENCY COORDINATOR(S) are notified and able to assume his/her duties as EMERGENCY COORDINATOR.

When informed of the incident the EMERGENCY COORDINATOR will implement the Contingency Plan.

III. DUTIES OF THE EMERGENCY COORDINATOR

The Emergency Coordinator is required to perform certain activities and follow certain procedures in an emergency. Whenever there is an imminent or actual emergency situation:

1. The Emergency Coordinator (or his designee when the Emergency Coordinator is on call) must immediately activate internal facility alarms or communication systems to notify all facility personnel, and notify appropriate state or local agencies with designated response roles if their help is needed [265.56 (a) (1) & (2)].
2. If there is a release, fire or explosion, the emergency coordinator must immediately identify the character, exact source, amount and aerial extent of any released materials. This may be done by observation or review of facility records or manifests and, if necessary, by chemical analysis [265.56 (b)].
3. At the same time, the emergency coordinator must assess possible hazards to human health or the environment that must result from the release, fire or explosion [265.56 (c)].
4. If the Emergency Coordinator determines that the facility has had a release, fire or explosion that could threaten human health or the environment outside the facility, he must report his findings as follows. If his assessment indicates that evacuation of local areas may be advisable, he must immediately notify appropriate local authorities. The Emergency Coordinator must be available to help appropriate officials decide whether local areas should be evacuated. He must immediately notify the National Response Center using their 24-hour toll-free number (1-800-424-8802). The report must include: (1) name and telephone number of caller; (2) name and address of facility; (3) time and type of incident (e.g. release, fire); (4) name and quantity of material(s) involved, to the extent known; (5) the extent of injuries, if any; and (6) the possible hazards to human health or the environment outside the facility [265.56 (d) (1)-(2)].
5. During an emergency, the Emergency Coordinator must take all reasonable measures necessary to ensure that fires, explosions and releases do not occur, recur or spread to other hazardous waste at the facility. These measures must include, where applicable, stopping processes and operations, collecting and containing released waste, and removing or isolating containers [265.56 (e)].
6. If the facility stops operations in response to a fire, explosion or release, the Emergency Coordinator must monitor for leaks, pressure build-up, gas generation or ruptures in valves, pipes or other equipment, wherever this is appropriate [265.56 (f)].

Duties of Emergency Coordinator

7. Immediately after an emergency, the emergency coordinator must provide for treating, storing or disposing of recovered waste, contaminated soil or surface water, or any other material that results from a release, fire or explosion at a facility [265.56 (g)].
8. The emergency coordinator must ensure that, in the affected area(s) of the facility: (1) no waste that may be incompatible with the released material is treated, stored or disposed of until clean-up procedures are completed; and (2) all emergency equipment listed in the contingency plan is cleaned and fit for its intended use before operations are resumed. [265.56 (h)].
9. The owner or operator must notify the EPA regional administrator and appropriate state and local authorities that the facility is in compliance with the previous paragraph before operations are resumed in the affected area(s) of the facility [265.56 (i)].
10. The owner or operator must note in the operating record the time, date and details of any incident that requires implementing the contingency plan. Within 15 days after the incident he must submit a written report on the incident to the EPA regional administrator. The report must include: (1) name, address and telephone number of the owner or operator; (2) name, address and telephone number of the facility; (3) date, time and type of incident; (4) name and quantity of material(s) involved; (5) the extent of injuries, if any; (6) an assessment of actual or potential hazards to human health or the environment, where this is applicable; and (7) estimated quantity and disposition of recovered material that resulted from the incident [265.56 (j)].

IV Emergency Respon Procedures

Notification Phase

Immediately on discovery of an imminent or actual emergency, the emergency coordinator must:

1. Activate the internal alarm or communication system to notify facility personnel.
 - Are all personnel accounted for?
 - Are there any injuries?
2. Notify state or local agencies with designated response roles if their help is needed.
 - Can facility personnel control the emergency?
 - Emergency response phone numbers: Section VI.
3. Notify EPA on-scene coordinator or National Response Center of incident.
 - Emergency response phone numbers: Section VI.
4. Identify character, exact source, amount and aerial extent of any release material.
 - Is facility evacuation necessary?
 - Identification of hazardous materials: Section IX.
 - Facility evacuation plan: Section VII.
5. Assess hazards to the environment and human health.
6. Determine if evacuation of local area is advisable. If so, notify local authorities.
 - Will prevailing winds carry toxic fumes toward populated area?
 - Is explosion likely?

Control and Containment Phase

During the emergency control phase, the emergency coordinator must:

1. Ensure that proper and adequate measures are taken to response to the incident. If necessary, commit facility resources and incur debts to properly respond.
2. Take measures to ensure the incident does not recur or spread to other hazardous waste at the facility. Shutdown operations if necessary.
3. Monitor equipment for leaks, pressure build-up or other potential problems if operations are shutdown.

Follow-Up and Clean Phase

Following attainment of control, the emergency coordinator must:

1. Provide for treating, storing, disposing or decontaminating of recovered waste, contaminated soil, surface water, ground water or other material resulting from the discharge, in compliance with all Federal, State and Local Regulations.
2. Ensure that clean-up procedures are completed and emergency equipment is fit for use before resuming operations of affected areas.
3. Notify EPA, state and local officials that the facility is in compliance before resuming operation.
4. Place a summary of the incident (time, date and details) in the operating record.
5. Submit written report on the incident to EPA regional administrator and state regulatory authorities within 15 days of the incident.

Potential Spills

1. Overflow of waste solvent tank (see NOTE)
2. Overflow of waste hydrofluoric acid tanks or sump
3. Overflow of caustic clay tank
4. Overfill of acid and caustic regenerant solution tanks in RODI
5. Spill of drummed or tanked water treatment chemicals
6. Spill in dock area of drummed raw or waste chemicals
7. Overturn of tanker truck or flatbed with drums on the Chandler campus
8. Overturn of a cabinet of gallon bottles of acid
9. Spill of drummed or carboys of RODI chemicals.
10. Spill of waste oils around any piece of oil using equipment
11. Overfill or spill of diesel fuel at each of four storage tanks
12. Spill of freon or other drummed materials in C2 area
13. Spill of freon or other drummed materials in Line Maintenance dirty shop
14. Broken solvent or acid line

NOTE: Procedure to discontinue

Applicable Procedures

Spill Clean-Up - See Attached Procedure

Flammable Liquids - See Attached Procedure

Unknown Materials - See Attached Procedure

Known Specific Chemical - Refer to guidebook in ESCT cabinet for appropriate response to a specific chemical

EMERGENCY PROCEDURES
FOR
FLAMMABLE LIQUIDS

Keep unnecessary people away.
Stay upwind; keep out of low areas.
Isolate hazard area and deny entry.
Wear self-contained breathing apparatus and full protective clothing.
ISOLATE FOR 1/2 MILE IN ALL DIRECTIONS IF TANK OR TANKCAR IS INVOLVED
IN FIRE.
FOR EMERGENCY ASSISTANCE CALL CHEMTREC (800)424-9300
Also, in case of water pollution, call local authorities

FIRE

SMALL FIRES: Dry chemical, CO₂, water spray or alcohol foam.
LARGE FIRES: Water spray, fog or alcohol foam.
Move container from fire area if you can do it without risk.
Stay away from ends of tanks.
Cool containers that are exposed to flames with water from the
side until well after fire is out.
For massive fire in cargo area, use unmanned hose holder or monitor
nozzles.
Withdraw immediately in case of rising sound from venting
safety device or discoloration tank.

SPILL OR LEAK

No flares, smoking or flames in hazard area.
Stop leak if you can do it without risk.
Use water spray to reduce vapors.
SMALL SPILLS: Take up with sand, or other noncombustible absorbent
material, then flush area with water.
LARGE SPILLS: Dike far ahead of spill for later disposal.

FIRST AID

Move victim to fresh air; call emergency medical care.
If not breathing, give artificial respiration.
If breathing is difficult, give oxygen.
In case of contact with material, immediately flush skin and
eyes with running water for least 15 minutes.
Remove and isolate contaminated clothing and shoes.

EMERGENCY PROCEDURES
FOR
UNKNOWN MATERIALS

Keep unnecessary people away.
Stay upwind; keep out of low areas.
Isolate hazard area and deny entry.
Wear self-contained breathing apparatus and full protective clothing.
FOR EMERGENCY ASSISTANCE CALL CHEMTREC (800)424-9300
Also, in case of water pollution, call local authorities.

FIRE

SMALL FIRES: Dry chemical, CO2, water spray or foam.
LARGE FIRES: Water spray, fog or foam.
Move container from fire area if you can do it without risk.
Cool containers that are exposed to flames with water from the side until well after fire is out.
For massive fire in cargo area, use unmanned hose holder or monitor nozzles.
If this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

No flares, smoking or flames in hazard area.
Keep combustibles (wood, paper, oil, etc) away from spilled material.
Do not touch spilled material.
SMALL SPILLS: Take up with sand, or other noncombustible absorbent material, then flush area with water.
LARGE SPILLS: Dike far ahead of spill for later disposal.

FIRST AID

Move victim to fresh air; call emergency medical care.
If not breathing, give artificial respiration.
If breathing is difficult, give oxygen.
In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.
Remove and isolate contaminated clothing and shoes.
Keep victim quiet and maintain normal body temperature.

V. COORDINATION AGREEMENTS

CHANDLER

Police: City of Chandler Police Department

Address: 250 E. Commonwealth Avenue
Chandler, Arizona 85224
(602) 963-0911

Contact Person: Randy Stewart

Agreement: To assist in any emergencies requiring evacuation of large areas of involving desruption of traffic in the Chandler area.

Fire: City of Chandler Fire Department

Address: 190 N. Delaware
Chandler, Arizona 85224
(602) 963-0911

Contact Person: John Seffner, Fire Marshall

Agreement: To respond to emergencies such as fires or explosions requiring fire-fighting ability and to provide emergency medical transport.

Mecical: Occupational Medical Center

Address: 5030 S. Mill
Tempe, Arizona 85283
(602) 820-8989

Contact Person: Dr. Edward Best, M.D.

Agreement: To provide general emergency medical facilities including EKG and difibulator, IV's, oxygen and resusitation, suture and dressing of wounds. Any injury potentially involving tendons or nerves should be referred directly to Desert Samaritan.

Or:

Address: Desert Samaritan Hospital
1044 S. Dobson Road
Mesa, Arizona 85205
(602) 835-3700

Contact Person: Jackie Evans, Nursing Administrator

Agreement: To provide complete emergency hospital facilities and and medical transport if necessary.

Electrical Utility: Salt River Project

Address: P.O. Box 1980
Phoenix, Arizona 85001
(602) 236-5309 or 967-2052
236-5743
236-8811 or 236-8822
236-5743

Power Dispatcher
Customer Services
(office hours only)
Customer Information
Center
Routine Electric
Service

Contact Person: Steve Erhman, Customer Energy Management

Agreement: To provide assistance in emergencies which could potentially involve the electrical utility.

Gas Utility: Southwest Gas Company

Address: 2820 W. Kelton Lane
Phoenix, Arizona 85023
(602) 894-6674 or 942-0888

Contact Person: Customer Service Manager

Agreement: To provide assistance in emergencies which could potentially involve the natural gas utility.

Water & Sewer Utility: City of Chandler

Address: 200 E. Commonwealth Ave.
Chandler, Arizona 85224
(602) 899-9756 or after 5 p.m.
899-9740

Contact Person: Paul Bishop, Public Services Manager

Agreement: To provide assistance in emergencies which could potentially involve the water or sewer utility.

Back-Up Spill Response IT Corporation

Address: 336 West Anaheim St.
Wilmington, Ca. 90744
(213) 830-1781

Contact Person: Larry Butler

Agreement: To respond within 2 hours to any emergency Intel's Emergency Coordinator has determined to be beyond internal response capabilities. See attachment for description of service.



IT CORPORATION

IT CORPORATION

Proposal
Emergency Response Services
Intel Corporation

Regional Office

IT Corporation • 6900 East Camelback Road • Suite 700 • Scottsdale, Arizona 85251 • 602-994-0877



IT CORPORATION

May 17, 1984

Proposal
Emergency Response Services
Intel Corporation

IT Corporation is pleased to submit this proposal to provide comprehensive emergency response services to Intel Corporation. IT Corporation has specialized in the decontamination and environmental restoration of air, land and water for more than 50 years. Our large multidisciplinary staff is well acquainted with existing environmental regulations and state-of-the-art response techniques, and is adept at applying their experience and expertise to the evolving challenges of environmental problem solving.

Emergency Response Services

Current environmental laws result in substantial liability exposure for manufacturers, transporters and users of hazardous materials. Thus, our approach to environmental emergency response is based on the concept of total service to the client -- from hazard identification, prevention training, containment, neutralization and removal, through site restoration. In the event of a spill or other environmental emergency, we provide Environmental Emergency Response Teams that are on 24-hour standby. These teams can be on their way to a site within minutes after being contacted by the client via our nationwide toll-free Emergency Response phone number.

Our Environmental Emergency Response Teams are equipped with a new, totally self-contained, rapid response, airborne mobilization capability. This new generation of specialized equipment allows even faster response to hazardous materials spills throughout the nation and will supplement the existing network of ground-based mobile response units already in place at our facilities in many areas of the country.

We have contracted with Federal Express for delivery of our Environmental Emergency Express Response Units nationwide. Federal Express Corporation

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is uniquely suited to provide timely field support in critical industries such as Hazardous Materials Emergency Response. They combine centralized warehousing with a nationwide hub in Memphis, Tennessee. The result is a simple but unique system of storage and transportation providing the economies of centralized inventories with the speed of reliable nationwide air service.

Each Environmental Emergency Express Response Unit contains 6,000 pounds of personnel safety and product recovery equipment including self-contained breathing apparatus, first aid equipment, protective clothing, analytical chemical hazard kits, air, soil, and water monitoring devices, transfer pumps, specialized safety tools and materials to contain and control hazardous materials spills plus patching equipment for leaking vessels. Additional equipment which IT Corp. can provide in the event of an environmental emergency is listed in Appendix A.

Each Environmental Emergency Response Team includes specialists in health and safety, chemistry, hazardous material handling, packaging and transportation and on-site containment and treatment. They are backed up by engineers, scientists, toxicologists and analytical chemists experienced with hazardous materials from years of first-hand involvement in hundreds of spill response incidents.

Environmental Emergency Response Team members are selected because they have demonstrated a respect and proficiency for handling hazardous materials. Team members are fully insured and trained to handle the most hazardous assignments. Through experience and our in-house training program they learn and practice skills in safety, equipment operation, hazard recognition, spill containment, control techniques, and mitigation of spill emergencies.

Our Environmental Emergency Response teams are committed to providing the most cost-effective, remedial action for the client. We design our emergency response programs to interface with the in-plant first response unit. When our personnel arrive on-site, we can provide the client with technical support to supplement his activity, or alternatively, we will assume direct responsibility for the response action. Our teams frequently adopt a coordination role with the different interested parties and agencies concerned to ensure an agreed, dedicated approach to solving the problem in the shortest possible time and at a minimum expense to the client.

Our record of operational performance has led to many national, state and local contacts with major corporations and government agencies for Environmental Emergency Response. Descriptions of several emergency response actions that we have successfully directed are provided in Appendix B.

Schedule and Cost

Intel would incur no initial cost nor any monthly fee for contracting with IT Corp. to provide an Environmental Emergency Response Team in the event of a spill or other environmental emergency. Costs to IT Corp. would be on an as-needed basis. A current rate schedule is given in Appendix C. Initiation of this service can begin immediately by signing and returning one copy of the M.S.A.

We trust that this submittal satisfies your requirements at this time and look forward to working with you in this project. If you have any questions concerning this proposal or require further clarification, please do not hesitate to contact me at 213/830-1781.

Sincerely,

Larry Butler
Sales Account Manager

cc: Mr. Terry McManus - Intel
Mr. Kurt Kruger - IT

eb

VI. REQUIRED REPORTS

The Emergency Coordinator will notify:

1. The National Spill Response Center within 24 hours of the incident by phone 1-800-424-8802 to give them the following information:
 - a. Name and telephone number of reporter.
 - b. Name and address of the facility.
 - c. Date, time, and type of incident (e.g. fire, release, etc.)
 - d. Name and quantity of material(s) involved to the extent known.
 - e. The extent of injuries, if any.
 - f. Possible hazards to human health or the environment outside of the facility.
2. Intel's operating log within 24 hours of the incident with a written incident report (see attached) with the required information plus the information in (1).
3. The Region 9 EPA Administrator within 15 days of the incident by certified letter giving the following information:
 - a. Name, address, and telephone number of all owner operator (Note: Provide Intel's address and the Emergency Coordinator as a contact person.)
 - b. Date, time, and type of incident (e.g. fire, explosion, etc.)
 - c. Name and quantity of materials involved.
 - d. The extent of injuries, if any.
 - e. An assessment of actual or potential hazards to human health or the environment where applicable.
 - f. Estimated quantity and disposition of the recovered material that resulted from the incident.

This letter should be sent to:

Region 9 EPA Administrator
215 Fremont Street
San Francisco, California 94105
(415) 974-8155
Attention: John C. Weiss

and copied to:

Technical Assistance Team
153 Kearney Street
San Francisco, California 94108
(415) 781-0816
Attention: Erwin Koehler

4. The Arizona Department of Health Services should be notified by phone at (602) 255-1170 within 24 hours and by certified letter within 10 days giving the information in (1) on the phone and (3) in the letter. The letter should be sent to:

Mr. Ted Blackburn
Spill Response Coordinator
Bureau of Waste Control
Arizona Department of Health Services
1740 W. Adams St.
Phoenix, Az. 85007

Carbon copied to:

Mr. Norman Weiss
Acting Bureau Chief
Bureau of Waste Control
Arizona Department of Health Services
1740 W. Adams St.
Phoenix, Az. 85007

and

Mr. Boyd A. Dover
Acting Director
Arizona Department of Health Services
1740 W. Adams St.
Phoenix, Az. 85007

5. Intel Risk Management - Gary Toms at X78505
Intel Legal - Lori Cimino X78809
Intel Public Relations - Frank Vaughan X4092

Within in 24 hours contact by phone with the information in (1) and copy them on other correspondence at their request.

VII. IDENTIFICATION OF HAZARDOUS MATERIALS

In the event of an emergency involving a hazardous chemical the Emergency Coordinator should determine the type of chemical involved and refer to the manual of Material Safety Data Sheets and the corresponding procedures for that particular chemical located in one of the ESCT supply cabinets. These procedures have been taken from the 1984 Emergency Response Guidebook.

NOTE: Intel would be glad to supply a copy of this manual at ADHS's request.

VIII. REVISIONS OF THE CONTINGENCY PLAN

The contingency plan is not meant to be a static document. The contingency plan must be reviewed and amended immediately if necessary, whenever:

1. Applicable regulations are revised;
2. The plan falls in an emergency;
3. The facility changes in a way that materially increases the potential for incidents or changes the responses necessary to emergencies;
4. The list of Emergency Coordinators changes; or
5. The list of emergency equipment changes.

APPENDIX A

Policies & Procedures

TITLE: LOSS CONTROL TEAM PROCEDURE

EFFECTIVE DATE: 12/06/82

REVISION: 1

WRITTEN BY: Bill Taylor

APPROVED BY:

PAGE 1 OF 4

1.0 Purpose/Scope

- 1.1 To provide a procedure for the establishment and maintenance of Loss Control Teams.

2.0 Definitions

- 2.1 The Loss Control Team (LCT) is an organization designed to respond to general emergencies by evacuating personnel, shutting down utilities and critical systems, coordinate with responding civil authorities, and evaluate property for safety prior to re-entry.

3.0 General3.1 LCT Composition and Responsibilities

3.1.1 LCT Leader

- 1. Has authority and responsibility over the entire LCT.
- 2. Evaluates scope of emergency, determines extent of shutdown, evacuation, and building sweep; coordinates with civil authorities, evaluation of property prior to re-entry.
- 3. Keep LCT staffed and organizational charts up to date. Schedule and conduct LCT meetings.
- 4. Schedule evacuation drills in conjunction with manufacturing and safety.
- 5. Insure that a general facility shutdown procedure is written in coordination with facilities and safety. Have this procedure updated semiannually.

3.1.2 Assistant LCT Leader - Primary responsibility is communications within LCT, assumes leaders role if the leader is absent.

3.1.3 Sub-Team Leader - Directs sub-team in completion of responsibilities once dispatched by LCT Leader.

3.1.4 LCT Member - Perform individual function as team member.



Policies & Procedures

TITLE: LOSS CONTROL TEAM PROCEDURE

EFFECTIVE DATE: 12/06/82

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PAGE 2 OF 4

3.1.5 Sub-Teams

1. Security Team - Receives initial call and activates LCT, notifies affected parties and outside agencies, initiate evacuation alarm, maintain mobile command post, first aid.
2. Facilities Team - Shutdown of critical utilities, energy systems, and PIV inspection.
3. Line Maintenance Team - Shutdown of critical chemical systems, gas systems and equipment.
4. Safety - Advisor to the LCT, performs audits to insure the LCT is operational.
5. Traffic Control Team - Crowd control, headcount, building entrance control, emergency vehicle guide, building sweep.

4.0 Procedure

4.1 Organizing the LCT

- 4.1.1 Each building complex should have its own LCT for each operational shift. FAB buildings should have a separate LCT.
- 4.1.2 LCT leaders and assistant leaders should be appointed by the building manager or equivalent level manager in conjunction with safety.
- 4.1.3 Non FAB LCT leaders should be chosen from facilities managers or supervisors if possible.
- 4.1.4 FAB LCT leaders and assistant leaders must be chosen from line maintenance, facilities, or production managers or supervisors.
- 4.1.5 The first shift LCT leader is responsible for insuring the second and third shift LCT leaders keep their teams active.
- 4.1.6 When a LCT leader is moved to another job the individual filling the LCT leaders former job will automatically assume the role of LCT leader.

4.2 Command Post and Assembly Points

- 4.2.1 The LCT command post and employee assembly points shall be chosen by the LCT leader, Safety and Security.



Policies & Procedures

TITLE: LOSS CONTROL TEAM PROCEDURE

EFFECTIVE DATE: 12/06/82

REVISION: 1

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PAGE 3 OF 4

4.3 LCT Training

- 4.3.1 All members of the LCT should be familiar with the shutdown procedures. Shutdown procedures should be reviewed quarterly by all team members during a LCT meeting.
- 4.3.2 All LCT members should receive the following training classes:
 - 1. Activation and shutdown procedure
 - 2. Fire extinguisher use
 - 3. First Aid
 - 4. CPR
- 4.3.3 FAB LCT members should also receive the following training classes:
 - 1. Chemical Awareness and Spill Cleanup
 - 2. Chemical Leak Detection Equipment
 - 3. Self Contained Breathing Apparatus

4.4 LCT Meetings

- 4.4.1 FAB LCT's should meet monthly for a one hour meeting to review LCT staffing and duties. Safety should conduct a training session during part of the meeting.
- 4.4.2 Non FAB LCT's should hold quarterly meetings. Where FAB and non FAB teams exist in the same building complex this meeting can be a joint meeting between both teams to coordinate activities.

4.5 LCT Drills

- 4.5.1 Each LCT should have a semiannual drill where the LCT is presented with a predevise mock emergency by safety. The LCT should go through the maneuvers of handling the situation up to but not including shutdown of equipment or systems. A critique should be held following the drill.
- 4.5.2 These drills should be held in conjunction with practice evacuations whenever possible.

4.6 LCT Equipment

- 4.6.1 Adjacent to the LCT command post should be an emergency equipment area. It should be kept locked with the keys kept at Security which can be made immediately available to the LCT.



Policies & Procedures

TITLE: LOSS CONTROL TEAM PROCEDURE

EFFECTIVE DATE: 12/06/82

REVISION: 1

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PAGE 4 OF 4

- 4.6.2 Security should inventory the equipment monthly.
See attachment 1 for minimum equipment.

4.7 Activation Procedure

- 4.7.1 The LCT is automatically activated when the general evacuation alarm for the building is sounded. The LCT will assemble at the LCT command post.
- 4.7.2 The LCT can also be activated via a page over the public address system or portions of the team can be activated using personal beepers.

4.8 LCT Audit

- 4.8.1 A LCT monthly audit is conducted by Safety. The audit will access equipment, staffing, level of training and whether meetings and drills are being held according to schedule. See attachment 2.
- 4.8.2 Updated LCT organizational charts should be distributed to Security by the LCT leader.

FAB 6

FACILITY

4/24/84

DATE

FIRST

SHIFT

LOSS CONTROL TEAM STRUCTURE

DAVE SALEWSKI

LCT LEADER

JON VOGEN

ASST. LCT LEADER

* ABSENT

NORM BLACK

FACILITIES
TEAM LEADER

BRE PEDERSEN.

LINE MAINT.
TEAM LEADER

MIKE WEST

TRAFFIC CONTROL
TEAM LEADER

LOY BARNES

SECURITY
TEAM LEADER

ELECTRICAL

BOB WOODRUFF

FRED VAN HORN

BUILDING SWEEP

TED BLACK (P)

GEORGE WILTBANK (A)

CROWD CONTROL

SECURITY

FIRST AID

CHERYL HOLM (P)

ED SARLO (A)

DI WATER/STORAGE TANKS

J.R. SPRATLEN

JOHN SNYDER

GAS SYSTEMS/DOWNSTAIRS SWEEP

DANA ORGOVAN (P)

TIM JONES (P)

BLDG. ENTRANCE CONTROL

SECURITY

ENERGY CENTER

GRIZZ HORNBUCKLE

GEORGE ROCKRICH

ERIK MAGNUSSEN (P)

EQUIPMENT SHUTDOWN

^PT. VERNON ^AP. CARR

HEADCOUNT

RANDY BANKS (P)

HAROLD BOBO (A)

WAFER SALVAGE TEAM/OTHERS

ERIK GILLMAN

BRAD HOUSTON

PIV INSPECTOR
ASSIST NURSE

MIKE ENGLER (P)

DALE HORNBAKER

B. HAGUE B. RABENBERG

B. DE SHONG

CHOPPER DIRECTOR

BRE PEDERSEN

PAT RYAN

HAROLD BOBO

JEFF HODGKINSON

G. ANDERSON D. ORGOVAN Swam/Gold

FAB 6

FACILITY

4/24/84

DATE

SECOND

SHIFT

LOSS CONTROL TEAM STRUCTURE

DAVE KING

LCT LEADER

CHUCK BARKLEY

ASST. LCT LEADER

* ABSENT

TECH ON DUTY

FACILITIES
TEAM LEADER

TIM NAEGLE (P)

LINE MAINT.
TEAM LEADER

SECURITY AT DESK

TRAFFIC CONTROL
TEAM LEADER

SECURITY AT DESK

SECURITY
TEAM LEADER

ELECTRICAL

BUILDING SWEEP

CROWD CONTROL

FIRST AID

JOHN DARRENKAMP

VANCE DABERKOW (P)

* DAN CARRUTHERS

PAM FOSTER R.N.

TONY MADONIA

MARK WILKERSON

JERRY HECK

DI WATER/STORAGE TANKS

GAS SYSTEMS/DOWNSTAIRS SWEEP

BLDG. ENTRANCE CONTROL

AL BEARDON

DAVE MOORE (P)

KEN LOFTIS (P)

RICK FISHER (A)

STEVE BANACK (A)

ENERGY CENTER

HEADCOUNT

WAFER SALVAGE TEAM/OTHERS

KEN DRISCOLL

EQUIPMENT SHUTDOWN

* MARK WAMPLER (P)

DEBORAH GRAFF

MIKE HENRY (P)

RICK BAUER

ED JOHNSON

PIV INSPECTOR
ASSIST NURSE

JIM MARTIN
KERRY STENGER

CHOPPER DIRECTOR

MIKE WHITMAN (TF) (NEED
REPLACE)

(RODI TECH)

STAN FORD
TONY OPHEIM

(S) GARY WILLIAMS (P)

JOE ATTERBURY (DIFF)
DIANE BERGMAN

FAB 6

FACILITY

4/24/84

DATE

THIRD

SHIFT

LOSS CONTROL TEAM STRUCTURE

DAVE SMITH

LCT LEADER

DENNIS RIHA

ASST. LCT LEADER

* ABSENT

TECH ON DUTY

FACILITIES
TEAM LEADER

MIKE NOGGLE

LINE MAINT.
TEAM LEADER

SECURITY AT DESK

TRAFFIC CONTROL
TEAM LEADER

SECURITY AT DESK

SECURITY
TEAM LEADER

ELECTRICAL

JOE FALLONE

BUILDING SWEEP

BOB JACKSON

HANK ZUCCHI

CROWD CONTROL

* JIM ROBBINS

* KEITH RADCLIFF

FIRST AID

TRISH MEYERS

DI WATER/STORAGE TANKS

RON BELL

BOB ATKINS

GAS SYSTEMS/DOWNSTAIRS SWEEP

JOHN ROBINSON

MARK JONES

BLDG. ENTRANCE CONTROL

PAT MURPHEY

BOB JACKSON

ENERGY CENTER

TOM POPE

DAN MONTGOMERY

EQUIPMENT SHUTDOWN

MANNY GARCIA GENE TOWNER

PAUL PIRRO

BRAD HERRINGTON

HENRY HANSEN

BOB CLARK

HEADCOUNT

JIM ROBBINS

KEITH RADCLIFF

CHOPPER DIRECTOR

KEITH RADCLIFF

WAFER SALVAGE TEAM/OTHERS

* JERRY FRANCOEUR

* BOB YEAGER

STAN JAMES

* SUE KELLY (D)

PIV INSPECTOR

ASSIST NURSE

PAT MURPHEY

GENE TOWNER

LIST OF ALL EMERGENCY EQUIPME.

Equipment generally available throughout the building.

FAB BUILDING

1. Fire Extinguishers
2. Self Contained Breathing Apparatus
3. Two-Way Radios
4. Amchem Chemical Spill Compound
5. Verniculite absorbent
6. Acid Gloves
7. Solvent Gloves
8. Chemical Splash Aprons
9. Safety Goggles
10. Face Shields
11. Empty 17H Drums
12. Overpack Drums
13. Forklift
14. Submersible Pump
15. Air Powered Pump
16. Camera
17. Plug-N-Dike
18. Brooms
19. Shovels
20. Plastic Bags

CAMPUS LCT EQUIPMENT (Located in LCT Equipment Cage - See Attached Layout)

1. Two 30 minute self contained breathing apparatus in addition to those in general use in the Fab building
2. 2 - 4 spare air bottles
3. Bull-horn
4. First Air Supplies
5. Safety belts and Lanyards
6. Two-Way Radios
7. Rope
8. Disposable Acid Suits
9. Acid and Solvent Slobes, Faceshields, Acid Aprons
10. 2 Acid Bubble Suits
11. Disposable Coveralls
12. pH Paper
13. Hard Hats
14. Explosion Proof Flashlights and Lanterns
15. Batteries
16. Smoke Ejector

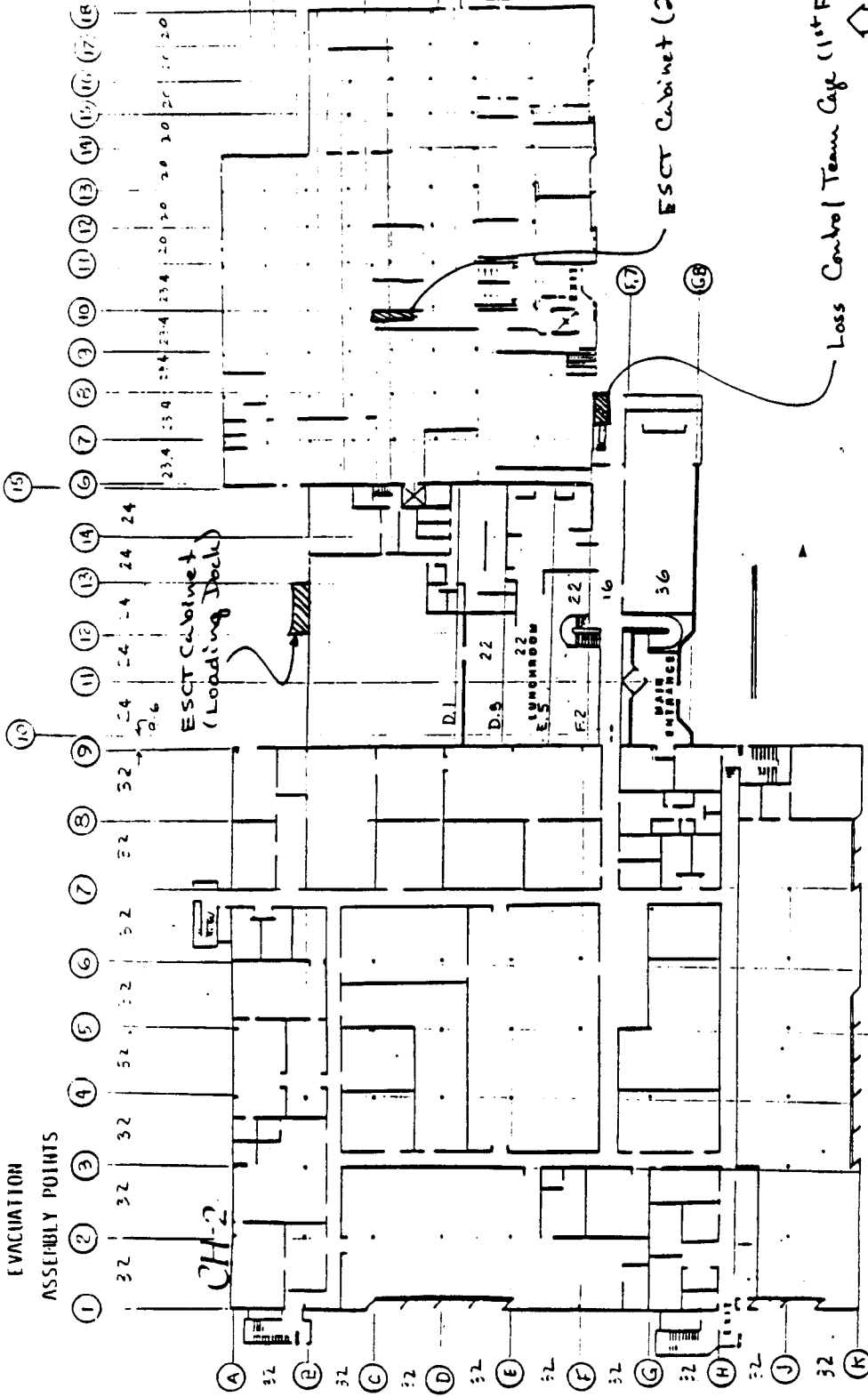
SECURITY MOBILE COMM, , POST _ (Located in Security \ - See Attached Layout)

1. Portable/Remote Telephone
2. Floor Plans of Building, Blueprints and Mr. Clean Maps.
3. Emergency Notification Lists
4. Building Shutdown Procedures
5. LCT Lists
6. Barricade Tape
7. Flares
8. 2 Fluorescent Traffic Vests
9. Detailed Road Maps of Area Around Intel Facilities to Plan Evacuation Routes

*Anything Else Determined by Security or Safety

E VACUATION

ASSEMBLY POINTS



intel

ESCT and LCT Emergency Response
Equipment Location

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APPENDIX B

EMERGENCY SPILL CLEAN-UP TEAM PROCEDURE

1.0 TITLE

1.1 Emergency Spill Clean-up Team Procedure

2.0 PURPOSE

2.1 To provide a procedure for the establishment and maintenance of Emergency Spill Cleanup Team.

3.0 SCOPE

3.1 The Emergency Spill Cleanup Team is an organization designed to cleanup minor chemical spills (less than 100 gallons) of hazardous materials, or contain larger chemical spills until outside agency arrives, then assist afterwards, and back up Loss Control Team if emergency situation dictates.

4.0 APPLICABLE FORMS/DOCUMENTS - N/A

5.0 GENERAL

5.1 Organizing the ESCT

5.1.1 ESCT leaders and assistant leaders should be appointed by the Facilities Services Manager, Fab Manufacturing and Materials Manager.

5.1.2 ESCT leaders and assistant leaders must be chosen from Facilities, Fab or Shipping/Receiving, Facilities Engineering, and Safety.

5.1.3 The first shift ESCT leader is responsible for insuring that the second and third shift ESCT leaders keep thier teams active.

5.1.4 When an ESCT leader is moved to another job, the individual filling the ESCT leaders former job will automatically assume the role of ESCT leader, and will attend required training classes as offered (See 5.3).

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5.2 Command Post and Assembly Points

5.2.1 In Fab Team

5.2.1.1 The In-Fab ESCT will assemble in the Fab locker room area.

5.2.2 Campus Team

5.2.2.1 The Campus ESCT will assemble on the loading dock near the Campus ESCT supplies cabinet.

5.3 ESCT Training

5.3.1 All members of the ESCT should be familiar with the chemical cleanup procedures. Cleanup procedures should be reviewed quarterly by all team members during an ESCT meeting.

5.3.2 All ESCT members should receive the following training classes at a minimum of one year intervals. (See Attachment #1).

5.3.2.1 Chemical Handling

5.3.2.2 Detection Equipment

5.3.2.3 Chemical Spill Control

5.3.2.4 SCBA

5.3.2.5 Fire Extinguisher Use

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5.3.3 ESCT members should take additional training classes as follows.

5.3.3.1 Compressed Gas

5.3.3.2 C.P.R.

5.3.3.3 First Aid

5.3.3.4 Environmental Responsibility (Team Leaders Only)

5.3.3.5 EMT (Emergency Medical Technician)

5.3.3.6 Emergency Coordinator (Team Leaders Only)

5.4 ESCT Equipment

5.4.1 Adjacent to the ESCT assembly point should be an emergency equipment area. It should be kept locked with the keys kept at Security, and with all ESCT leaders so it can be available immediately to the ESCT.

5.4.1.1 Dock/Campus Cabinet

5.4.1.2 Fab Cleanroom Cabinet

5.4.1.3 Mobile Spill Trailer

5.4.2 ESCT leaders as designated will inventory the equipment monthly. See Attachment #2 & 3 for minimum equipment.

5.5 Activation Procedure

5.5.1 The ESCT leader will be contacted by Security via pager in the event of a chemical spill.

5.5.2 The ESCT will be activated via a pager. As described in Attachment #4 and 4A.

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5.6 ESCT Audit

5.6.1 A ESCT monthly audit is conducted by ESCT Leaders. The audit will access equipment, staffing, level of training and whether meetings and drills are being held according to schedule. See Attachment 3.

5.6.2 Updated ESCT Pager/Phone Calling list should be distributed to Security and all team members by the ESCT leader. See Attachment #4 and 4A.

5.7 ESCT Meetings

5.7.1 ESCT leaders will meet monthly for a two hour meeting to review ESCT issues and duties.

5.7.2 ESCT members will meet monthly to review staffing and duties. Safety should conduct a training session during part of the meeting.

5.8 ESCT Drills

5.8.1 Each ESCT should have a quarterly drill where the ESCT is presented with a pre-devised mock emergency by Safety. The ESCT should go through the maneuvers of handling the situation up to but not including shutdown of equipment or systems. A critique should be held following the drill.

5.8.1.1 One drill per quarter for Fab ESCT.

5.8.1.2 One drill per quarter for campus ESCT.

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5.9 Clean-Up Procedures

Note: If area must be evacuated of personnel the ESCT leader will contact the LCT (Loss Control Team) leader in charge during emergencies and his/her decision to evacuate is final.

5.9.1 In all cases of spills, the ESCT leader must refer to the "Duties of the ESCT Emergency Coordinator" list and fill out the "Spill Incident Form" (Attachment #5 and #6).

5.9.1.1 Small spill - Evacuate immediate area, unless, due to the nature of the spill (e.g. Phosphine, Arsine, or other highly toxic flammable chemical) the Area Shift Supervisor, ESCT or LCT leader decides to evacuate the entire area.

5.9.1.2 Large Spill - Area or Shift Supervisor, ESCT or LCT leader is responsible for determining the extent of the evacuation.

5.9.1.3 Massive Spill - Evacuate entire area.

5.9.2 Secure the Area

5.9.2.1 Allow no one to enter the spill area except those specifically designated the task of cleaning up the spill and who are wearing the appropriate personal protective equipment.

5.9.3 Contact Security

5.9.3.1 Give the following information: name, what was spilled, size of spill, and if the area has been evacuated.

5.9.3.2 Security will inform the Safety Engineer and appropriate management personnel.

5.9.4 Don appropriate personal protective equipment.

5.9.5 Don self contained breathing apparatus.

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5.9.6 Flammable spill:

5.9.6.1 Move appropriate fire extinguishers to the spill area.

5.9.6.2 Extinguish all sources of ignition and insure that other sources of ignition are not admitted into the spill area (e.g. flashlights that are non-explosion proof).

5.9.7 Dike the spill with asorbent beginning with leading points of liquid flow and working around the perimeter of the spill.

5.9.7.1 Working from the outside to the inside of the spill, sprinkle the absorbent on the spill allowing it to soak up the liquid. Alppy until a dry layer remains on top.

5.9.7.2 For massive spills disregard 5.9.7.1. After diking spill, pick it up with a corrosion resistant non-spark generating wet vac and damp mop. A squeegee and shovel or dust pan can also be used to contain and pick up the spill.

5.9.8 Do not throw water, lab towels, or any other chemical on a chemical spill as this may cause undesirable chemical reactions. These adverse reactions are especially true with POCL, and all strong acids.

5.9.9 Carefully pick up absorbed spill with broom and dust pan or shovel without launching any extra contaminates into the air. Use corrosion resistant, non-spark generating wet vac and damp mop to pick up a massive spill. Wet vac must be emptied and rinsed promptly to prevent corrosion. DO NOT USE HOUSE VACUUM!!

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8000 W. Williams Field Road
Chandler, Arizona 85224

DOCUMENT NO. 34-754 10/12/84

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5.9.10 Place chemical waste into appropriate corrosion resistant barrel.

5.9.11 Damp mop area or, wash down if possible.

5.9.11.1 Non Toxic Corrosives - Wash wet vacs and all other clean up tools and mops in drain in Acid Waste Neutralizer System. Dispose of rinsed non-useable clean-up materials in trash.

5.9.11.2 Solvents - Transport wash mops, brooms, wet vacs and other clean up tools to the Acid Waste Neutralizer System and allow residual amounts of Solvent to evaporate for 24 hours. Dispose of rinsed non-useable clean-up materials in trash.

5.9.12 Label all waste containers according to Waste Chemical Disposal Procedure. Dispose of liquid waste according to the type of spill.

Arsenic Contaminated Materials	55 gal 17-H Opentop Metal Drums
HF Acid Waste	55 gal Opentop Poly or Plastic Drum
*Non Toxic Neutralized Acid Waste	Acid Waste Neutral.
*Non Toxic Unneutralized Acid Waste except for HF	Acid Waste Neutral.
*Non Toxic Unneutralized Base Waste	Acid Waste Neutral.
All <u>Rinsed</u> Bottles	Bottle or Trash Dumpster
Resist Waste	Resist Ring Top 17-H Drum
Solvent	55 Gal. 17-H Opentop Metal Drum

*Non-Toxic corrosives are those not containing heavy metals such as chromium, arsenic, or other poisons.

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6.0 POLICY

6.1 ESCT Composition and Responsibilities

6.1.1 ESCT Leader

6.1.1.1 Has authority and responsibility over the entire ESCT.

6.1.1.2 Evaluates scope of emergency, determines extent of cleanup needs, coordinates with civil authorities and outside agencies.

6.1.1.3 Keep ESCT staffed and organizational charts up to date and conduct ESCT meetings.

6.1.2 Assistant ESCT Leader

6.1.2.1 Primary responsibility is communications within ESCT, assumes leaders roll if the leader is absent.

6.1.3 Sub-Team Leader

6.1.3.1 Directs sub-team incompletion of responsibilities once dispatched by ESCT leader.

6.1.4 The Fab Team Leader

6.1.4.4 Supervises Emergency Cleanup efforts within Fab Clean Room.

6.1.5 Campus Team Leader

6.1.5.1 Supervises Emergency Cleanup efforts exterior to Clean Room.

6.1.6 ESCT Member

6.1.6.1 Performs individual function as assigned.

7.0 RESPONSIBILITIES - N/A

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ATTACHMENT #1

ATTACHMENT #1

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INTEL CORPORATION PROPRIETARY INFORMATION

ATTACHMENT #2

MONTH: _____

E.S.C.T. SUPPLY INVENTORY

DESCRIPTION:	U/M	IN-PAD				CAMPUS				TRAIL				TOTAL:		
		MAX:	MIN:	AVAIL:	ORD:	MAX:	MIN:	AVAIL:	ORD:	MAX:	MIN:	AVAIL:	ORD:	MAX:	MIN:	ORD:
PH PAPER TESTER	EACH	6	4			20	10			10	5	10		30	19	
MARKING PEN	EACH	4	2			12	6			5	3	5		21	11	
ACID GLOVES (ORANGE)	BOX	2	1			2	1			2	1	2		4	1	
SOLVENT GLOVES (GREEN)	BOX	2	1			2	1			2	1	2		4	1	
FACE SHIELD	EACH	5	3			5	3			5	3	5+		15	9	
DISPOSABLE ACID SUIT	EACH	20	10			20	10			20	10	20+		60	30	
ACID APRON	EACH	10	5			10	5			10	5	10+		30	15	
BARRICADE TAPE	ROLL	5	2			10	5			10	5	10+		25	12	
DUCT TAPE	ROLL	5	2			10	5			10	5	10+		25	12	
FLASHLIGHT	EACH	2	1			10	5			10	5	8		22	11	
BATTERIES(SIZE D)	EACH	4	2			20	10			20	10	10		44	22	
CHEMICAL LIGHT	EACH	N/A	N/A			20	10			20	10	20		40	20	
RUBBER BOOTS	PAIR	4	3			15	10			15	10	15+		36	23	
ADJUSTABLE WRENCH(MS)	EACH	1	1			2	1			2	1	2		5	3	
PLASTIC BOTTLE PAIL	EACH	4	2			4	2			4	2	8		12	6	
BARRICADE CONE	EACH	4	3			4	3			4	3	4		12	9	
MOP	EACH	2	1			N/A	N/A			2	1	3		4	2	
BUCKET/WRINGER	EACH	2	1			N/A	N/A			2	1	2		4	2	
VET VAC	EACH	1	0			N/A	N/A			N/A	N/A	N/A		1	0	
DISPOSABLE COVERALL(TYVEK)	EACH	6	3			20	10			20	10	10		46	23	
AMICHEN ABSORBANT	BUCKET	20	15			20	10			10	5	8		50	30	
GARDEN HOSE (50 FT)	EACH	N/A	N/A			2	1			2	1	2		4	2	

NOTE: _____

B.S.C.T. SUPPLY INVENTORY		IN-PAR				CANPUS				TRAIL				TOTAL:		
DESCRIPTION:	U/M:	MAX:	MIN:	AVAIL:	ORD:	MAX:	MIN:	AVAIL:	ORD:	MAX:	MIN:	AVAIL:	ORD:	MAX:	MIN:	ORD:
CABBAGE BAGS (800)	BAG	2	1			2	1			2	1	1		4	3	
ROUND END SHOVEL	EACH	N/A	N/A			3	3			3	3	3		6	6	
FLAT END SHOVEL	EACH	1	0			3	3			3	3	4		9	6	
RAKE	EACH	N/A	N/A			3	2			3	2	4		6	4	
DUSTPAN	EACH	2	1			3	2			3	2	2		8	5	
STIFF BRISTLE BROOM (24")	EACH	2	1			3	3			3	3	3		12	7	
RIPCUT HAND SAW	EACH	N/A	N/A			2	1			2	1	1		4	2	
CROSSCUT HAND SAW	EACH	N/A	N/A			2	1			2	1	1		4	2	
PLASTIC SHEET	ROLL	N/A	N/A			1	.5			1	.5	1		2	1	
EMER. COORD. DUTY CHECKLIST	EACH	3	3			3	3			3	3	1		13	9	
SPILL INCIDENT FORM	EACH	20	10			20	10			20	10	20		60	30	
EMER. RESPONSE GUIDEBOOK	EACH	1	0			1	0			2	1	1		3	1	
VERMICULITE (50 LBS)	BAG	N/A	N/A			10	5			6	3	20		18	0	
LINE (50 LBS)	BAG	N/A	N/A			3	2			3	2	1		6	4	
RECOVERY DRUM	EACH	N/A	N/A			10	5			6	3	12		16	0	
FIRE EXTINGUISHER	EACH	N/A	N/A			N/A	N/A			2	1	4		2	1	
SCRUB PAD	EACH	2	1			2	1			2	1	4		6	3	
HOSES/SPRAYERS	EACH	N/A	N/A			2	1			2	1	4		4	2	
DRUMS (BLUE)	EACH	N/A	N/A			2	1			2	1	2		4	2	
DRUMS (POLY LINED)	EACH	N/A	N/A			2	1			2	1	0		4	2	
GOGGLES	EACH	3	3			3	3			3	3	0		13	9	
KITTY LITTER	EACH	N/A	N/A			3	3			3	3	0		10	6	
SIGNAL FLARES	EACH	N/A	N/A			3	3			3	3	0		10	6	
13/16 SOCKET	EACH	1	1			1	1			3	1			3	3	
BARRELL PUMP	EACH	N/A	N/A			N/A	N/A			1	1			1	1	
EXTENSION CORD	EACH	N/A	N/A			2	2			3	2			5	4	
HAZARDOUS WASTE LABELS	PKG.	1	1			1	1			1	1			3	3	
DEGREASER SET	SET	1	1			1	1			1	1			3	3	

INTEL CORPORATION PROPRIETARY INFORMATION

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ATTACHMENT #3

EMERGENCY SPILL CLEANUP TEAM AUDIT FORM

Auditor _____

Month _____

Team _____

Shift _____

A. % Staffed _____

$\frac{\text{Filled Positions}}{\text{Total Positions}} \times 100 = \% \text{ Staffed}$

B. % Equipment in place _____

C. % Trained _____

D. % Meetings and drills _____

a. Meetings scheduled in last 6 months _____

b. Meetings held in last 6 months _____

c. Drills scheduled in last months _____

d. Drills held in last 6 months _____

$$\left[\frac{\frac{b}{a} + \frac{d}{c}}{2} \right] \times 100 = \% \text{ Meeting and drills}$$

Total audit status _____

$$\left[\frac{A + B + C + (3 \times D)}{6} \right] = \text{Total Status}$$

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As of 12/18/84

EMERGENCY SPILL CONTROL TEAMNOTE: For Digital Pager, precede return call code with "000"Call Leaders First On

<u>All Incidents</u>	<u>Ext</u>	<u>Page</u>	<u>Home</u>
SCT Leader - M. Smith	2256	227-0852	
Asst. SCT Leaders - D. Moore	5870	251-1128	963-0564
- K. Pate	5871	251-6704	963-3264
- J. Hodgkinson	8223	251-6729	890-9310
- H. Fyffe	8384	261-9184	992-8992
Safety Engineer - B. Taylor	5808	270-1150	838-1432
- P. Murphy	5809	270-1120	835-7783
Nurse - 1st Sh - Cheryl Holm	2323	022	831-0328
2nd Sh - Pam Foster	2323	022	830-2985
3rd Sh - Patricia Myers	2323	022	834-1226

<u>1st Shift</u>	<u>In Fab (Home Phone)</u>	<u>Campus (Home Phone)</u>
	S. Brenner X-2067 (982-2088)	P. Tome 251-7325 (964-9292)
	F. Delion 036 (995-2183)	F. Barreras X-2067 (898-3390)
	A. Alvey 250 (986-9298)	E. Proctor 024 (899-0746)
	J. Dodson *139 (899-0851)	S. Rayburn 066 (834-8731)
	E. Proctor 024 (899-0746)	G. Hornbuckle 192 (990-7509)
	R. Ponze 120 (820-5894)	G. Harvey 148 (820-3625)
		R. Ponze 120 (820-5894)
		N. Coates 127 (838-1730)
<u>2nd Shift</u>	K. Loftis *139 (897-0275)	K. Loftis *139 (897-0275)
	R. Gowdy X-2067 (969-5405)	R. Gowdy X-2067 (969-5405)
	J. Westrich 123 (985-4004)	J. Westrich 123 (985-4004)
	A. Fairbanks - Radio (984-1703)	A. Fairbanks - Radio
	B. Maders 250 (831-2319)	J. Martin 056 (833-7698)
	R. Kennedy 251	A. Glass 066 (942-4153)
	M. Myers 036 (831-5169)	N. Kroes-2071 (899-9026)
<u>3rd Shift</u>	J. Halchishick *139 (832-2937)	J. Halchishick *139 (832-2937)
	B. Holman 036 (829-0518)	B. Holman 036 (968-2665)
	R. Riazzi - Radio (839-1085)	R. Riazzi - Radio (893-1085)
	A. Lopez x2067 (839-2440)	J. Martin 125 (890-2969)
	J. Garza 123 (897-6105)	R. Henry 034 (947-0756)
	J. Miller 250 (899-4502)	E. Corral (969-9227)
	R. Vanez x2067 (963-3289)	J. Rardon x2067
	D. Hamilton - Radio (873-0204)	

*Shift Coordinator

NOTE: In event of weekend or holiday, first call SCT Leader, Asst. SCT Leaders, and one of the Shift Coordinators.

<u>Misc. Phone Numbers</u>	<u>Ext.</u>	<u>Page</u>	<u>Home</u>
J. Keeler (Mgr. Fac. Services)	5847	261-9005	
E. Boot (Mgr. Az. Site Services)	5801	--	
T. Lane (Mgr. Safety Department)	5804	270-1161	892-5722
T. McManus (Corp. Envir. Engr.)	4812	--	967-6916
<u>Loss Control Team Leaders</u>			
1st Sh - D. Salewski	2050	--	
J. Vogen (Asst.)	8014	261-9272	
2nd Sh - D. King	2036	153	
D. Moore (Asst.)	2017	093	
3rd Sh - D. Smith	2722	210	

12/18/84

ESCT WEEKEND CALL LIST

(5PM FRIDAY TO 8AM MONDAY, CAMPUS & FAB)

<u>WEEKEND</u> (Fri,Sat,Sun)	<u>NAME</u>	<u>PAGER</u>	<u>HOME</u>
1-11,12,13	K. Pate	251-6704	963-3264
1-18,19,20	J. Hodgkinson	251-6729	890-9310
1-25,26,27	K. Loftis		897-0275
2-1,2,3	P. Tome	251-7325	964-9292
2-8,9,10	D. Moore	251-1128	963-0564
2-15,16,17	G. Dodson		899-0851
2-22,23,24	M. Smith	227-0852	
3-1,2,3	K. Pate	251-6704	963-3264
3-8,9,10	J. Hodgkinson	251-6729	890-9310
3-15,16,17	K. Loftis		897-0275
3-22,23,24	P. Tome	251-7325	964-9292
3-29,30,31	D. Moore	251-1128	963-0564
4-5,6,7	G. Dodson		899-0851
5-12,13,14	M. Smith	227-0852	

- NOTE:
- o This weekend call list to be posted at FAB-6 Security Desk.
 - o During weekend keep FAB-6 Security (961-2160) notified as follows:
 - For those with Digital Pagers notify Security if more than 20 minutes away from Intel FAB-6.
 - For those without Digital Pagers notify Security whenever away from home phone.
 - o A substitute must be determined if any conflict occurs. This is the complete responsibility of the person on-call. Security must be notified of any changes.
 - o Security must call other ESCT leaders of shift coordinators if weekend call person cannot be reached after attempted page or call.

/sr

11/7/84

DUTIES OF THE ESCT EMERGENCY COORDINATOR

- o A person discovering a spill should give the following information to Security (x2160):
 - Material spilled
 - Estimated quantity
 - Location
 - Time
 - Name of caller
- o ESCT leader or shift coordinator should assess magnitude of spill incident:
 - Type of material?
 - Size of spill?
 - Toxic, flammable, or corrosive?
 - Area evacuation necessary?
 - Shutdown nearby equipment?
 - Alert/call Fire Department (963-0911)?
 - Notify National Spill Response Center (1-800-424-8802) and Arizona Department of Health Services (call 602-255-1170 within 24 hours) if major release or evacuation?
- o Call Security (x2160) to assemble ESCT member, if required. Assemble LCT, if required.

NOTE: For outside area spills, a radio should be immediately picked up from Security (use team member, not leader, to pick up radio).

- o All personnel involved in spill clean-up wear protective equipment:
 - Rubber gloves
 - Goggles/face shield
 - Rubber apron/full suit
 - Rubber boots
 - SCBA
 - Area ventilation
 - Fire extinguisher on hand
 - Location of nearest safety shower/eyewash station
- o Check type of spill and danger to personnel
 - Acid or base (pH paper)
 - Solvent (flammable vapor sensor)
 - Toxic (Draeger Tube)
- o Block off area with barricade tape to limit access to properly protected ESCT members only
- o Dike around spill with sand/vermiculite to contain spread
- o Do Not mix acids and bases, or corrosives and solvents
- o Absorb spill with sand/vermiculite
- o Shovel up absorbant and contaminated soil, wood, or boxes into waste drum

- o Test area ground, soil and walls for residual contamination
 - If still major contamination, may need to continue excavation/clean-up
 - If minor, may need to flush with water or damp mop for acids/bases or let evaporate for solvents
- o Discard used mop heads and broom bristles in waste drums
- o Wash all other clean-up tools and protective equipment
- o Label drums as follows:
 - Date
 - Coordinator's name
 - Spill incident description (brief)
 - Drum number of total number, e.g. "#1 of 5"
 - Drum contents description
 - Warning as appropriate to type of chemical, e.g. "Flammable", "Corrosive", etc.

NOTE: Fill out entire spill incident report sheet while clean-up is being performed and give to ESCT leader after incident.

ATTACHMENT #6
SPILL INCIDENT REPORT

DATE AND TIME OF INCIDENT:

EMERGENCY COORDINATOR:

LOCATION OF INCIDENT:

DESCRIPTION AND ESTIMATED QUANTITY OF SPILL MATERIAL:

ASSESSMENT OF ANY CONTAMINATION AND DAMAGE:

DESCRIPTION AND TIME LENGTH OF CLEAN-UP AND EVACUATION, IF REQUIRED:

NOTIFICATIONS REQUIRED DURING SPILL INCIDENT (PERSON CALLING, PERSON CONTACTED, REASON, TIME):

WASTE DRUMS (NUMBER & CONTENTS):

(Continued On Other Side)

NAMES OF PEOPLE INVOLVED IN INCIDENT:

_____	_____
_____	_____
_____	_____

NAMES OF PEOPLE INVOLVED IN CLEAN-UP:

_____	_____
_____	_____
_____	_____

LIST TOOLS AND SUPPLIES CONSUMED FOR REORDERING:

<u>ITEM</u>	<u>QUANTITY</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

COMMENTS, OBSERVATIONS AND SUGGESTIONS ON SPILL CLEAN-UP PROCEDURE AND INCIDENT:



INTERNAL CORRESPONDENCE

TO LIST
FROM Faith Kopp, C2-686, x2832

DATE May 18, 1984

SUBJECT ESCT Training

CC L. Barnes
E. Boot
H. Fyffe
[REDACTED]
J. Keeler
T. McDonald
B. Phillips
D. Salewski
E. Wagner
J. Vogen

LIST: Team Leaders

A. Mahoney
D. Moore
K. Pate
B. Taylor
P. Tome
K. Loftis
J. Halchishick
R. Brown
J. Hodgkinson

Team Members

S. Brenner
F. Delion
A. Alvey
B. Maders
G. Hornbuckle
F. Barreras
J. Worsham
S. Rayburn
N. Coates
C. Rodgers
R. Gowdy
R. Hurst
J. DarrenKamp
J. Westrich
B. Holman
V. Garcia
F. Milligan
E. Proctor
R. Riazzi
J. Martin

The following training schedule has been planned for all ESCT members. Please plan to attend.

<u>Who</u>	<u>Day</u>	<u>Date</u>	<u>Time</u>	<u>Where</u>	<u>What</u>
1st & 2nd Shift	Wednesday	6/6	3:00-4:00	Back Dock	Small Fire Fighting
1st & 2nd Shift	Friday	6/8	1:30-5:30	Rm 221	Basic Chem. Awareness
1st & 2nd Shift	Wednesday	6/13	1:30-5:30	Back Dock	SCBA & Cleanup Drill
3rd Shift	Thursday	5/31	7:00-8:00	Back Dock	Small Fire Fighting
3rd Shift	Thursday	6/7	5:00-9:00	Rm 205	Basic Chem. Awareness
3rd Shift	Thursday	6/14	5:00-9:00	Back Dock	SCBA & Cleanup Drill

APPENDIX CTITLE: GENERAL EVACUATION
PROCEDURE

EFFECTIVE DATE: 9/20/82

REVISION: 0

WRITTEN BY: BILL TAYLOR

APPROVED BY:

PAGE 1 OF 2

1.0 Purpose

Establishes the procedure for evacuation during a major emergency in any Intel facility.

3.0 General

3.1 Evacuation drills will be conducted annually in all buildings and covering all work shifts.

3.2 The Security Department and Loss Control Teams have additional procedures covering their actions during evacuations.

4.0 Procedure

Employee discovering
the emergency.

4.1 Call the emergency number.

Security

4.2 Activate the appropriate evacuation alarm or Loss Control Team (as per Security Procedures).

Employees

4.3 When the alarm sounds in your building stop all work, shut off equipment as previously directed by your supervisor. Quickly walk to the nearest exit. Do not stop for personal belongings. Go to designated staging area and stay there until released by supervisor. Do not re-enter the facility until so instructed.

Supervisors

4.4 Make sure all of your employees are leaving the building. Report to the assembly point.

Loss Control Team

4.5 Sweep the building to insure all employees are/have exited.

Supervisors

4.6 Conduct a headcount of all your employees. Report the names of employees thought to still be in the building and their last known location to the Loss Control Team.



FILE: GENERAL EVACUATION
PROCEDURE

EFFECTIVE DATE: 9/20/82

REVISION: 0

WRITTEN BY: BILL TAYLOR

APPROVED BY:

PAGE 2 OF 2

Loss Control Team Leader

4.7 Evaluate the scope and nature of the emergency and order re-entry of building when appropriate. (as per Loss Control Team procedures).

5.0 Responsibilities

5.1 The person discovering any potential life threatening emergency has the responsibility for immediately notifying Security via telephone.

5.2 Supervisors in addition to responsibilities in Section 4.0:

- .1 Communicate this evacuation plan to all your employees every six months, and to all new employees within two weeks of hire.
- .2 Identify alternate exits, any equipment shutdown procedures you may have, and your assembly point. Communicate this information to your employees.
- .3 Develop a plan to make sure your handicapped employees will be able to safely evacuate the building.

5.3 Security responsibilities are covered in a separate procedure, but generally include providing radio communications, traffic control, perimeter control, and preventing employees from re-entering the building before the all-clear signal is given.

5.4 Loss Control Team responsibilities are covered in a separate procedure, but generally include sweeping the building upon hearing the evacuation alarm, taking charge at the command post, and ordering re-entry of the building when appropriate.

5.5 Safety Department

- .1 Schedule evacuation drills.
- .2 Update the evacuation plan annually.
- .3 Audit all evacuations.



TITLE: CAMPUS EVACUATION

EFFECTIVE DATE: 9/20/82

REVISION: 0

WRITTEN BY: Bill Taylor

APPROVED BY:

PAGE 1 OF 2

1.0 Purpose/Scope

Establish guidelines that will allow an Intel Campus to totally evacuate all personnel from Intel property while minimizing loss of product and injury to employees.

2.0 General

- 2.1 Major incidents involving highly toxic and hazardous material occur regularly on highways and railways. Often, when such incidents occur, civil authorities evacuate large areas around the accident. Many Intel campuses have close proximity to a major railway or interstate highway.
- 2.2 In the area surrounding many Intel locations are a number of companies using highly toxic and hazardous materials. An accident at these companies could involve an evacuation of Intel by civil authorities.
- 2.3 If Intel were to be evacuated by civil authorities the evacuation would need to begin immediately and proceed quickly. All employees including security would need to leave the building. At best there would be 15-30 minutes available to salvage product and shut down equipment. Re-occupation of the building could only occur after the area has been cleared by civil authorities.

3.0 Procedure

- 3.1 Once the order to evacuate has been received by security from the civil authority (fire department, police, highway patrol, etc.) Security will call the Loss Control Teams to assemble. Security should also call the Security Manager, Safety, and building managers. These individuals should be kept on a call list at Security.
- 3.2 Security and Loss Control Team personnel will be posted at strategic points to direct traffic.
- 3.3 An announcement will then be made over the public address system that the entire campus is to be evacuated. This announcement should be in written form and kept on file at the security desk. The announcement should give directions as to the route to use leaving the facility and include orders for all employees to return to work the following day unless notified by phone otherwise. A predesignated radio station could be utilized for notification purposes.



TITLE: CAMPUS EVACUATION

EFFECTIVE DATE: 9/20/82

REVISION: 0

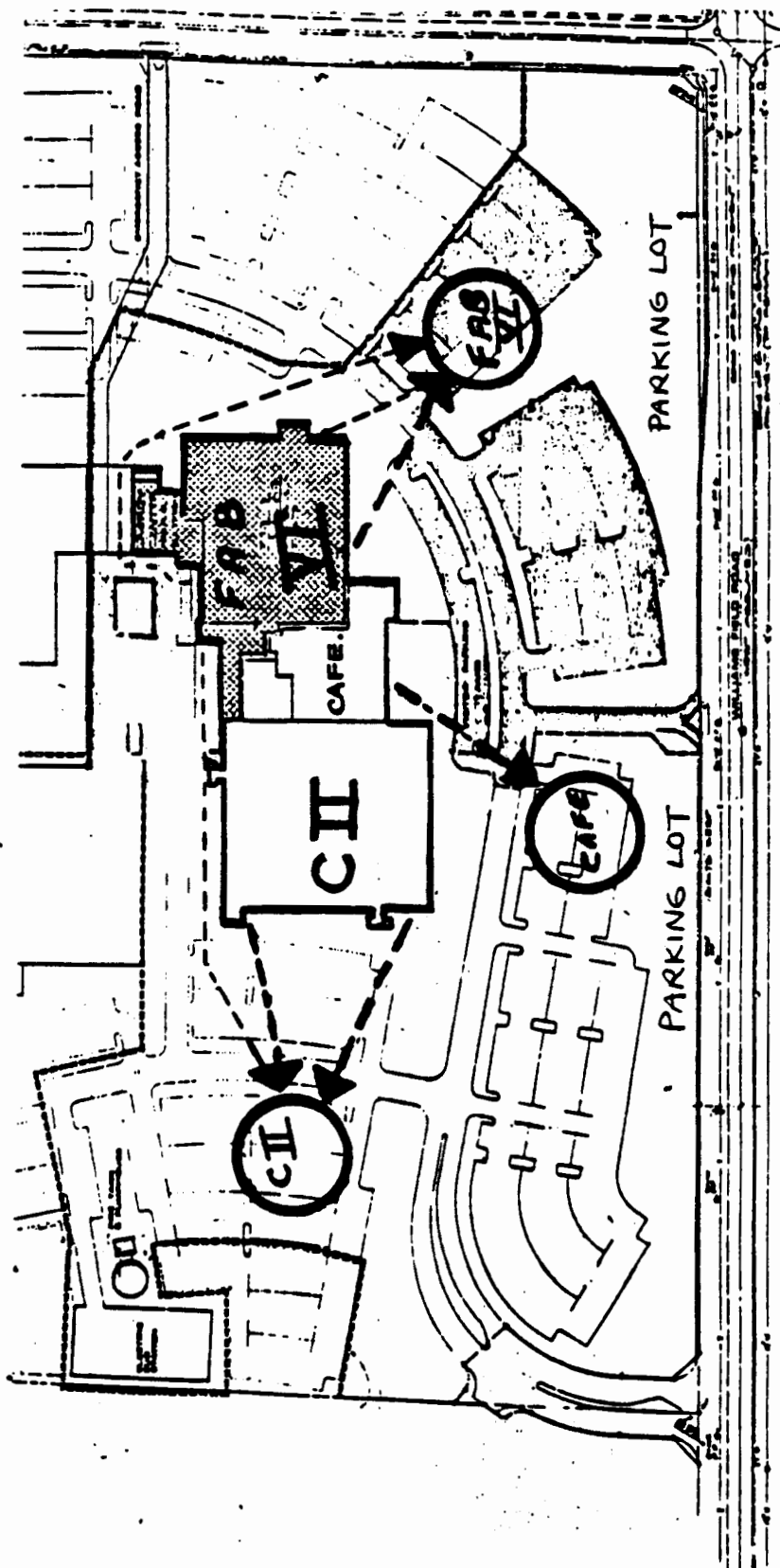
WRITTEN BY: Bill Taylor

APPROVED BY:

PAGE 2 OF 2

- 3.4 Personnel Department will immediately begin notifying as many people as possible on the following shifts not to come to work. The emergency call lists on file at Security could be used for this purpose.
- 3.5 While the building is evacuating, the Loss Control Team, with the assistance of Engineering or Production personnel as needed, will re-enter the fabrication area for equipment shutdown and wafer salvage. Production and Engineering should prioritize equipment and wafer salvage operations as time may be very limited for this operation.
- Supervisors should lock all storerooms, production areas, laboratories, and document control areas. Lab equipment should be unplugged and covered with plastic if possible to prevent water or chemical damage. Process equipment, ovens and experiments should be shut down.
- 3.6 Once employees have evacuated the building the Loss Control building sweep team should quickly check to insure that all buildings are empty and report to the Loss Control Team Leader.
- 3.7 Facility maintenance team will stand-by until orders are given by the Loss Control Team Leader to start building shutdown. Loss Control Team will need to decide whether to conduct a total shutdown (per Emergency shutdown checklist) or a partial shutdown.
- 3.8 A final headcount will be taken of all Loss Control, Wafer Salvage, Facility and Security Teams. All buildings will then be locked up by security and the campus will be totally evacuated.

ARROWS DENOTE ROUTES TO EVACUATION ASSEMBLY POINTS



↑ N



Janet Napolitano
Governor

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

1110 West Washington Street • Phoenix, Arizona 85007
(602) 771-2300 • www.adeq.state.az.us



Stephen A. Owens
Director

CERTIFIED MAIL **RETURN RECEIPT REQUESTED**

July 7, 2003
REF: HWICU03-287

Taimur Burki, Environmental Engineer
Intel Corporation
5000 W. Chandler Blvd.
Chandler, Arizona, 85226-3699

**RE: Notice of Opportunity to Correct; Intel Corporation, 5000 W. Chandler Blvd.,
Chandler, Arizona, 85226-3699 EPA ID Number AZD091235457**

Dear Mr. Taimur Burki:

On April 2, 2003, a Hazardous Waste Inspection was conducted at the above-referenced facility by representatives of the Arizona Department of Environmental Quality (ADEQ), Waste Programs Division. The inspection was conducted in accordance with the Arizona Revised Statutes Section 49-921 *et seq.*

The inspection, including any in-office record review, was conducted to evaluate your compliance with the Arizona Administrative Codes (AAC) R18-8-201 *et seq.* A copy of the inspection report has been included with this letter to apprise you of conditions and alleged violations observed during the inspection.

The report includes a document titled "NOTICE OF OPPORTUNITY TO CORRECT" that you are expected to follow to make corrections. You must provide documentation of corrections and other required documentation within 30 calendar days. If compliance cannot be achieved within **30 calendar days from receipt of this Notice**, the Notice may be escalated to an enforcement action.

ADEQ is accountable to the citizens of Arizona and mandated by law to ensure that handlers of hazardous waste are in compliance with all applicable statutes and rules. ADEQ must be assured that compliance has been achieved. Therefore, any submittal required by this letter, pursuant to A.A.C. R-18-8-280.C, must be certified with the following statement:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based upon my inquiry of the person or person who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Northern Regional Office
1515 East Cedar Avenue • Suite F • Flagstaff, AZ 86004
(928) 779-0313

Southern Regional Office
400 West Congress Street • Suite 433 • Tucson, AZ 85701
(520) 628-6733

Printed on recycled paper

Intel Corporation
July 7, 2003
REF: HWICU03-287
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Any omissions in this Notice and any accompanying reports shall not be construed as a determination of compliance with applicable laws and rules.

A reinspection may occur to ensure compliance with the requirements of this Notice.

If you have any questions concerning the above information, please contact your compliance officer, Richard Parker at (602) 771-4152, or toll-free in Arizona at (800) 234-5677 Ext.771-4152.

Sincerely,

A handwritten signature in cursive script that reads "Laura Malone". The signature is written in dark ink and is positioned above the printed name and title.

Laura Malone, Manager
Hazardous Waste Inspections & Compliance Unit
Waste Programs Division

Enclosures

April 2, 2003 inspection report with photographs



Janet Napolitano
Governor

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

1110 West Washington Street • Phoenix, Arizona 85007-2935
(602) 771-2300 • www.adeq.state.az.us



Stephen A. Owens
Director

CERTIFIED MAIL
Return Receipt Requested

Case ID # 25072

July 7, 2003

Intel Corp
Attention: Taimur K. Burki
5000 W. Chandler Blvd.
Chandler, Arizona, 85226

Subject: Opportunity to Correct Deficiencies
Intel Corp-Chandler, 3000
5000 W. Chandler Blvd. / Chandler, AZ 85224

Dear Mr. Burki:

The Arizona Department of Environmental Quality (ADEQ), has reason to believe that Intel Corp as the owner/operator of Intel Corp may be in violation of Arizona's environmental requirements. The purpose of this letter is to allow you an opportunity to correct these deficiencies without enforcement by ADEQ. An ADEQ inspection of the facility conducted on April 2, 2003, revealed the following:

1. **A.A.C. R18-8-270 (B)(1)**
Treatment, Storage, or disposal of hazardous waste without a permit

According to facility representatives, Intel is currently handling hydrogen peroxide rags and wipes as non-regulated solid waste. This waste stream is being stored in a dumpster before it is hauled off to be incinerated.

2. **40 CFR § 262.20 / A.A.C. R18-8-262**
Failure to manifest the transportation of hazardous waste off-site

The hydrogen peroxide waste stream is sent off site for disposal without using a hazardous waste manifest.

3. **40 CFR § 273.14 / A.A.C. R18-8-273**
Small quantity handler failure to label/ mark universal waste

Intel Corp
July 7, 2003

Page2

showing the proper handling, storage, and labeling of the waste. No further action is required.

Please review the above and submit a written response within 14 calendar days of receipt of this letter to:

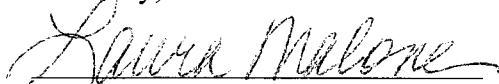
Arizona Department of Environmental Quality
Attention: Richard Parker
Hazardous Waste Inspections and Compliance Unit
1110 W. Washington St., Phoenix, Arizona, 85007

To establish compliance, your response must include the corrective actions that have been taken, along with appropriate documentation. Appropriate documentation includes invoices, photographs, logs, laboratory analyses, sealed engineering plans, technical drawings, permits and any other document necessary to establish that the above deficiencies have been resolved. ADEQ may verify compliance by on-site inspection or other appropriate means. Within 30 days of receipt of your response to this letter, ADEQ will notify you whether the facility is in substantial compliance.

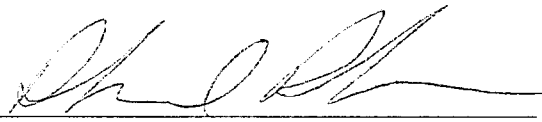
ADEQ may initiate enforcement for the above deficiencies if they are not corrected in a timely manner as described within this letter. If these deficiencies are corrected within the time frames in this letter, no enforcement will be taken by ADEQ.

Although ADEQ has the authority to issue appealable administrative orders compelling compliance, this letter has no such force or effect. Your point of contact for resolution of these deficiencies will be Richard Parker who can be reached at 602-771-4152 . Please contact him if you have any questions about this letter or need additional guidance.

Sincerely,



Laura Malone, Manager
Hazardous Waste Inspections and Compliance
Unit



Richard Parker
Hazardous Waste Inspections and Compliance
Unit



**ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE INSPECTIONS AND COMPLIANCE UNIT**

HAZARDOUS WASTE INSPECTION REPORT

FACILITY NAME: Intel Corporation

EPA ID NUMBER: AZD091235457

STREET ADDRESS: 5000 W. Chandler Blvd.

CITY/STATE/ZIP: Chandler, AZ 85226-3699

TELEPHONE NUMBER: 480-554-6800

MAILING ADDRESS: 5000 W. Chandler Blvd., Chandler, AZ 85226-3699

INSPECTION DATE: April 4, 2003

FACILITY REPRESENTATIVE(S) AND TITLE(S):

1. Taimur Burki, Environmental Engineer
2. Cherry Moyer, P.E., Senior Environmental Engineer
3. Curt Blount, Environmental Tech
4. Bekki Patzer, Process Engineer

ADEQ REPRESENTATIVE(S):

1. Barry Rinehart, Compliance Officer, Hazardous Waste Inspections and Compliance Unit
2. Richard Parker, Compliance Officer, Hazardous Waste Inspections and Compliance Unit

OTHER PARTICIPANTS/AGENCIES:

None

NOTE: Any omissions in this report and any accompanying notices shall not be construed as a determination of compliance with applicable regulations. Any regulatory citations to 40 CFR are as adopted by the Arizona Administrative Code, A.A.C. R18-8-201 *et seq.*

1. BACKGROUND INFORMATION

Intel Corporation is a wafer manufacturing finishing plant in microchip technology. The Intel Corporation is located on approximately one hundred and sixty (160) acres in seven (7) buildings.

The facility has reported the following to the ADEQ Facility Assistance Unit:

EPA ID Number and EPA Notification Form 8700-12 Status/Year: AZD091235457/ Current/ 2002

Facility Annual Report Status/Year: LQG/ 2003

Annual ADEQ Facility Registration Fee Status/Year: LQG/ 2003

RMS Manifest Totals: 21,728/ 2003

During the inspection, the facility reported the following other permits or activities:

Air Quality permits: Maricopa County Air

Drywells: 9 drywells on site.

NPDES permit: City of Chandler

Landfill/Dumpster/Hauler: Friedman Recycling Company

2. GENERAL INFORMATION

On April 2, 2003, compliance officers from the Arizona Department of Environmental Quality (ADEQ) Hazardous Waste Inspections and Compliance Unit (HWICU) conducted an inspection of the Intel Corporation. Compliance officers met with Bekki Patzer, Process Engineer. The compliance officers were informed that the facility hazardous waste specialist, Mr. Kevin Wolfe, was on vacation. Mrs. Patzer informed the compliance officers that the other facility representatives were in training but were called back to Intel for the inspection. Mrs. Patzer also contacted Mrs. Cherry Moyer, P.E., Senior Environmental Engineer at the Intel Corporation facility located at 4500 S. Dobson Road in Chandler. For the Inspection Rights form review, compliance officers met with Taimur Burki, Curt Blount, Bekki Patzer and Cherry Moyer from the 4500 S. Dobson Road facility. Compliance officers were informed that Mr. Taimur Burki would be the facility representative for the inspection.

WASTE STREAM IDENTIFICATION AND HANDLING SUMMARY

Information was obtained from the 2002 FAR and from facility representatives.

Waste No.	Waste Stream	Amount	Handling Description
D001	Flammable liquids (solvents)	Varies	Solvents are hard piped to a 5000 gallon storage tank, and then shipped off-site to approved TSDFs.
D002	Corrosive Liquids (Hydrofluoric acid waste)	Varies	Acid waste is neutralized and then sent to the waste-water treatment plant on site.
D002	Corrosive Liquids (corrosive copper etch)	Varies	Copper etch is captured in a 2000 gallon tank and sent for recycling.
D002	Spent corrosive solution (sulfuric acid)	5561 gallons per month	Shipped off site for reclaim.
D002	Corrosive utility sump fluid	185 gallons per year.	Waste is collected in drums and removed off site by contractor.
D008, D011	Lead and silver contaminated debris (Filters, rags, etc)	Approx. 605 lbs per month	Waste is collected and shipped off to approved TSDF.
D008, D011	Lead contaminated wastewater from solder printing operations	44 gallons per month	Wastewater is sent off site for treatment
	Calcium fluoride filter cake	Varies	Filter cake is sent to land fill as a solid waste or to a cement kiln.
D001, D002, D003	Peroxide rags (30%)	Unknown	disposed as a non-regulated solid waste
D002	Acid rags	Unknown	disposed as a non-regulated solid waste

3. PHYSICAL INSPECTION

BUILDING F-6

The compliance officers were informed that most of the buildings on site are office space and small test

labs. The main wafer production area is located in Building F-6. In this building, the wafers are separated into main runs. One is a test run and the other is production. Hazardous waste liquids (isopropyl alcohol, acetone, photo resist, concentrated copper waste) are hard plumbed into large storage tanks located outside the building. The waste is then shipped off site to an approved treatment, storage, and disposal facility (TSDF) or neutralized and sent to the wastewater treatment plant. Intel representatives stated that the Intel Corporation used to put acid rags and peroxide rags in the same waste container. These rags were used to clean various types of equipment. This practice was followed corporation wide until fires were reported. The Chandler facility does not have any reports of fires but stopped this practice when the corporation headquarters instructed all branches to stop. It was believed that the acid rags and the peroxide rags reacted with one another. Compliance officers were informed that the peroxide rags generated in this area are now bagged separately and disposed as solid waste.

ROOF ACID SCRUBBER

Intel representatives explained the acid scrubber system and stated that the scrubber is serviced about once a year by a contractor. The contractor handles all the waste produced in this area. No violations were observed in this area.

HAZARDOUS WASTE STORAGE AREA

All hazardous waste produced that is not hard plumbed to the storage tanks is stored in this area. Containers are properly labeled and dated. All containers were in good condition. Area was clean and well kept. A fire sprinkler system and alarm were observed. No violations were observed in this area.

UNIVERSAL WASTE STORAGE AREA

Compliance officers observed some used mercury bulbs not in containers. The building itself was closed and locked, but the bulbs were standing on end in a corner (photo 2) and were not in proper packaging or labeled.

4. DOCUMENT REVIEW

During the document review, compliance officers reviewed the weekly inspection sheets, the emergency equipment list, and the contingency plan. No violations were observed in this area.

5. EXIT DEBRIEFING AND RECOMMENDATIONS

Documentation showing the proper storage of universal waste lamps, hazardous waste removal from the hazardous waste tanks every 90 days and the numbered locations of all drywells on-site was requested. Copies of the facility's training plan and land disposal restrictions were also requested.

6. FACILITY RESPONSE

Compliance officers were informed during the inspection that the peroxide/ acid waste compatibility issues, i.e. fires, had been noted corporation wide but never in Arizona. When ADEQ received Intel's submittal on April 16, 2003, compliance officers noticed that the Ocotillo facility has had compatibility issues. The cover letter stated "Procedures for the segregation of the corrosives and oxidizers (hydrogen peroxide) had already been in place prior to the incident detailed in the report." This submittal conflicts with what the compliance officers were told. The acid rag waste and the peroxide rag waste are now put into separate containers, but are still disposed as solid waste. After careful review compliance officers determined that hydrogen peroxide has the hazardous waste characteristic of an ignitable waste (D001) (oxidizer) under 40 CFR 261.21 (a) (4). The peroxide rags may still pose a threat to human health and the environment. After reviewing the material safety data sheet (MSDS) Section 10 Conditions to Avoid, compliance officers have determined that the percentage of hydrogen peroxide used may have a D003 (reactive) waste code as well.

Arizona Department of Environmental Quality
Hazardous Waste Inspections and Compliance Unit

PHOTO LOG

Date: April 4, 2003

Location: Intel Corporation, 5000 W. Chandler Blvd., Chandler, AZ 85226-3699

Weather: Clear

Photographer: Richard Parker

Camera/Film: Pentax Zoom 90WR/ 35MM Solars film

No.	Direction Facing	Description
1	N/E	Universal waste area, mercury light bulbs not in container.

